

cattctctcg tgaacccctt cgagcgggtc gccatccgag agatgcgcac aaggcttggc 360  
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<210> 31599

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F7

<400> 31599

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taacccaact aaatgtcttt tcagaacatt cgcctatccc aagatgggtat aatacctaac 240  
agaccgcgac ctatggacct tcccaaaact tgctcagcct caatggctaa tgcaaacactc 300  
cctgtacatg ctcttcaaac ccggctggag cggtagttac tcccagagat gcacataaag 360  
ttgccaatga cctaggacca ggatcttccg ctcaattgcc ttacttaatc gccacgatcc 420  
cattgctttc cctaccaagc tctaaat 447

<210> 31600

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G1

<400> 31600

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cgggtgccgg aggaaggcgg gcgctggga gacggccgtc acggaggccg ccgcgagcct 120  
cagcaaggac agcttctcca cgtccaagat ctggatggcg tcggccgccg ggagagagga 180  
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gggcgcctgc aagtggcacc gcagggacga ggaacctttc gacgtcgagg cgggaagccc 300  
cggcggcgac aatgccgtct cgtctctgac agaagagagg ccaccgtcgg tggctatggc 360  
ggcgatggtc tgggtcgccg gcggggggca cgggagccat tcgtgatccg cattgggttg 420

cacgttggtt caagttcaac acactacaca ca

452

<210> 31601

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G2

<400> 31601

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attaacaagg acagcttctc cacgtccaag atctggatgg cgtcggccgc cggtagagac 180

gaagacggcc gccggcccg cagagacga gccgcgtcgt tccggtggcc ggcgatcgcc 240

tctgggcgct gcaagtggca ccgcacggac gaggaacctt tcgacg 286

<210> 31602

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G5

<400> 31602

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atcacacttc catgtgggta gtacttggca gaacacatat acacttccat gttagccacc 180

tgtagcaacc gacataacat aatggccatg cgatcattag cataacatat aactgcacat 240

ggacaaccat gatgagcaca tgaaactgct agacatatgc cctctggaga tgttgatgag 300

accagctgac atcatgcata ctgcatagtt ggcaagatgt aagtacatat agactactcc 360

tacagtcctt aattatgata tgaatgtggc tcgccctgct gtctataacc atcatcacac 420

agtcaaattg g 431

<210> 31603

<211> 443

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3068-059-Q1-K1-G6

<400> 31603

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catggcaatg ccttaccagg tatctatgtt caagaggact tatgatcatc ttcctaaaga 180  
tacttacttt ggcatgtata aggaagcgac acgaggaaat ccaaattatt ttctcaccta 240  
tggtaatgga aaatctgctg cacgaattca agaccatctc cgtactaatg gcgcgcacag 300  
gtggcataat tatgcaaaga gcccaaata gatcaagttg gaagaagctt gcagtctgca 360  
ttatacatc actaaatttt cagatttgac atctagacgt gatcgctgtg gatgcaagcc 420  
tacgaaagaa gatgttaaga gat 443

<210> 31604

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D5

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gagttatatt tggaaggggtg atagaccatg acataaggta actgctaaca aatttgcaat 120  
atatcacaag catcgctctt caatggcaga cactgttcaa ttaagaaggc cagctgctac 180  
aattccaat ataaatgctg atattgtgag aacatccact ctgcaatctg catctctacc 240  
gaaacaagaa tacttaacaa ttacattcaa gatctatact ttaagaaaac gtgactagag 300  
tgcattatgt gtgtccagct caaatatcct cattgtcaca aaatctacta tcc 353

<210> 31605

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B6

<400> 31605

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aaataaaaaat aaaaaaataa aataagaacc gaaaaaaata caattgcaaa aatgcatata 180  
actcataagt tagaaaacaa atatgaacta accactgacg tgaaagaaaa tacaatggaa 240  
ata 243

<210> 31606  
<211> 377  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-059-Q1-K1-B8  
<400> 31606

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aaggcgccgg ccaccaagcc gccacactac acttcgacgc cgccggtgtc tcacaccgcg 120  
agcccgccctt caccatactt ctagaaagcg atgcctacca taccacactg ctgacagtct 180  
ctggagcatc taggtggtct ggatcaatgg aagggttgtg tctagccag ccggcaatga 240  
tgagctgctg atggtactga tgatgataag aggccaatgc taccctacta cgtaccctcc 300  
tctttgtgtg ctgtcattcg tcccgttag acgatcgatg agtgaataac tcagagctct 360  
ctgcaagggc ctgtctt 377

<210> 31607  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ttgaccgagg ttttcgtctc aagtccactc ctgaagccct gccgattgaa gcagaaaggc 180  
tctttcttatt ctttttaggg tatggtatcg gactcgaaac cttcaaagtc gctgctacgt 240  
gctctgtggt gcgtctcaga gccctattcc atgtgggggt tggaagacat ttatttgatc 300  
ccagagggag gaataattag accttctctt ggggtgagga tacgtagcag tggaagatgc 360

cggtacatta tacgtctact cacttnctaa gcaaaaatca cggccaaact ttctttcttt 420  
tcgaaaactg gattc 435

<210> 31608  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C12

<400> 31608

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gcgcatttga ccgagggtttt cgtctcaagt ccactcctga agccctgccg attgaagcag 180  
aaaggctctt cttattcttt ttagggatg gtatcggact cgaaaccttc aaagtcgctg 240  
ctacgtgctc tgtgggtgct ctcagagccc tattccatgt ggggggttga agacatttat 300  
ttgatcccag aaggaggaat aattagaacc tcctctgggt tgaggatacg tagcaatgga 360  
aggatgccgg tcattatacg tctaactaac ttctaagcaa aatcacgggc aaaactttct 420  
ttcttttcga aaac 434

<210> 31609  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C3

<400> 31609

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atgcagctac ctggattact ggtgaggctg agcaaggaga ggattctggt gagtcgggag 180  
acgatgatga agatgatgat gatgaagacg atgacgaaga tgatgaggat gaagaagacg 240  
atgatgatga tgaagaggat catgaggaag aaagcaagcc agcatggaag tcaggatct 299

<210> 31610  
<211> 205

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C4

<400> 31610

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 agcttactgc gttactgatg aggctgtgca aggtgaggat aatgttgagc tggggccacga 120  
 ttatgaagat gatgatgatg aatacgatga ccaagatgac tatgatgaaa aagaggatca 180  
 tgatgaggca gcgcataatg aggac 205

<210> 31611  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C7

<400> 31611

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 ggggaattaa aagaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaataaaaaa aaaaaaaaaa aaaagtaaaa acaaataata aataaacaca caaaactaaa 180  
 aaaaaaatca gcacgatcaa aaacaagcaa ctgaacaaaa aacgacaaaa taaaacaaat 240  
 gaatca 246

<210> 31612  
 <211> 187  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D1

<400> 31612

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 atgtatgtgc caatatgatg tgccgttgcc ctgggtccatt catttccctt ttttttgggg 120  
 gtgaaataga tgtaaagatc tcgtcttgcc tgccgtactc gcgctgtgtt gggaaaaatt 180  
 tggttttt 187

<210> 31613  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D11

<400> 31613

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agcttcgggc ggtttctcaa cgacctgggc ggcttaacca atgtcacgtt cccttggaac 120  
gcgaacgccc taaccacctt ccgtgcctac agcgagcata cactcacatt gctatcttga 180  
attcttactc aaaggcctac aaccataact cgtcacactc gatcatctac ccaatctcca 240  
atcaaccctt cgctttttcc aattttttta aacaacttta cccatacgac taggtataaa 300  
cactaacaca gcgcggtcat cagactgaca aaaccaaacc ctactaccac attccaaacc 360  
cactcgaact tcccaacatc atagtgtaca ttacatcaca cttcaaaaat cac 413

<210> 31614  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D12

<400> 31614

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attggaggct accagtctct cgagggttg aacatggtga aaaaccagag cctaaccgta 180  
caagctcatg aaggtcta atgcggcgctg gcgcagtcac cagtcacagg gatgatagct 240  
tctgctagcc atgacaactc tgtcaagggtg tggaaatagc agtaacaacg attatgatgc 300  
acctaggtag ctttttttcc aaggcaagtg aaatttctcc tgctgaagca taaaataagg 360  
aagagtagta aattagatgg ttgccggctc cggttcagct gtccaagagc agtgagtttg 420  
ttgatgggtt gtattgtatt tatgctgata ggctg 455

<210> 31615  
<211> 454  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-059-Q1-K1-D2

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ggctcgggaa agggatcccc cgaatattgg gtagccgttg ttaaaccagg tcgaatactt 180  
tatgaaatga gcggagtatc cgaaactgta gctagagcag ctatctctat agctgccagt 240  
aaaatgcca tacgaagtca atttcttcga ttagagatat agaaccctaa aaaggaatat 300  
tgaagataaa aaacccttg ttttctttc tggaaagaca atatttcttt catccttttg 360  
cattgaaata acaaatggaa atccaaataa tatgattcaa cctcagaccc ttttaaagt 420  
agcagataac agtggagctc gaaaatngat gtgt 454

<210> 31616  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D3

<400> 31616

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gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtccgc ggcttcagct 240  
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300  
agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc agctgcgggt 360  
acggtggtgg ccgt 374

<210> 31617  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D4

<400> 31617

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tggccgcctc tccataacca cggaccacca ctaactctac aactccctaa gtaactaccg 180

ttacgtccta tactccaata tcactctgga tcagtagaca caaagcccc tcagatcccg 240

cttctaacc ttctccacgg atgaagcgat actgaacgcc atccatggca tgaacagcaa 300

ggcactagac tgccgcaaca tca 323

<210> 31618

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B5

<400> 31618

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cggcatcgtc ggggtatggtg gaaccgggca aactacattt gcgaaaaggc atctcactgg 180

aaagtttgag aagaaatatg aaccaaccat tgggtgtggaa gttcatccga tggatttcac 240

cactaactgt ggtaagatca agttctactg ctgggatacc gcacggcaag agacgtttgg 300

tggactcagg gatggatact atatccatgg ccagtggtgc atcatcatgt ttgatgtaac 360

ctcaaggctt acttacaaga atgttcttac gtggcatagg gacctgtgca gggctctgtga 420

agacattc 428

<210> 31619

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H8

<400> 31619

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ccccacccac gggcgcagcac ttccccagcgt gcacccctcat ctcttccctc agcaacctct 180  
gatgcacagg ttcccgccacc gtactcaact acgaccaccc ctaccccatc accagcgtct 240  
cacacgctta tcatcaatat ca 262

<210> 31620  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-058-Q1-K1-H9

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tccgccgtgc cgtccccgc tctcgtggg ccgtctgggc ccaattggcc gcggccgcgc 180  
gtccccgacc aggcgcgaat ccccccccc cgccccggtt aacctggaat tccttttctt 240  
ttttcctttt cccattttca catatataat tatatgttga tattttatgc accaaaaata 300  
gtttaaataa attatagggc aaaaaataa taagggtataa taattggcac accccagtaa 360  
gtcaccatga ttgatgtatt gttcttattt gtgcttggtta gcggaagagg gatcagatcc 420  
tncggaattt gtagctccgg gacaag 446

<210> 31621  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A1

<400> 31621

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ggaacctcat ggcgtagcat ccgtcgcac acgtcgccac cgcctccagg gaggagctga 180  
gacaggagtg cctgcggaag ggtacagagc tggcgcaggc ggtggccgac gtcctcttcg 240  
cgctgccgcc caacgaggac cgcgacggcc ccattatcca cctcccgccg cccaccttca 300  
gactccgcgc ggagaagcat ctaccaagc ccaagccacc gaccaagtgg gagctgtttt 360



gcaaagcgaa aggaattacc aagcgcaaaa tgaacaaacg tgagtgggat gagcaaactc 420  
aatcctggaa gcggactcat g 441

<210> 31622  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-059-Q1-K1-A10

<400> 31622

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atgacaaaagc tattttctaata gaacaagaga ctggtgttcc tgataaagat gagaaaactg 180  
ttgagataaa aaatcataaa aatgtgacta atataagaac aagtgtcacc aaagagaatg 240  
gaagccataa acgtgaatcc aataaccag gaaagcatct caagaaaaat aagaataatg 300  
ctaccaaaaa aattgatggc tctcacagca ctgaaacaaa tataagtggc aaagaagagc 360  
atcgcgaaaca aaccaagaaa atgagtcaca atatgaaatt tgcttctgat agaaccaa 419

<210> 31623  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A11

<400> 31623

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aaggaaggat taaaaaaaaa aaagaggcag caaaaaaaaaa aaaaaaaaaa aaaaagaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 180  
agaaaatcaa aaaaaaacca aagaaaaacc aaataagaaa aaaaaagaat acaccaaaaa 240  
tatcagaaca caaaaataaa aaaaaaagac aaacacgaaa aaacacaatg gaaccataaa 300  
aaaaacaaag aaagacaaaa ggaaagatac ccataaaaaa aacacataaa aacaaaaa 357

<210> 31624

<211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-A12  
  
 <400> 31624  
  
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 aaaaaggaag gtttaaaaaa aaaaaagggc gccccaaaaa aaaaaccaa aaaaaaaaaa 120  
 acaaacatac aacaaaaaaa aaacgccaac cgttcaacat aacccaaatt tactgaccct 180  
 tccatcccaa ctaaaaccac tgctaaaacc ccacctaaac ccaactaaat ggccttgcat 240  
 aaaaaacccc taaaccaga aaaccctaca gctaaccaac ccaaacccc 289

<210> 31625  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-A2  
  
 <400> 31625  
  
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 gctgttgaag tctctatggg tgatgtcgag ccatctcaaa ccgacgggtg tccaaaagt 180  
 atgtctagcc cacgtgtaac aacaagaagc atgtcttctg cttatgcaac tagtccatgt 240  
 cctacaacaa ggacgaaggc atccatctca ccaggaggaa ttaatccgag gctcattatt 300  
 agctagatat agtagttgtc attctctatc ttgcgtgtcg gcatggctgt gcaactattt 360  
 tgtgtaacta tttttacgct atgcaacact atgtctgatg gtggtgctta tatattctga 420  
 attgcatgaa ctcatt 436

<210> 31626  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-A5  
  
 <400> 31626

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 attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180  
 aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240  
 gatgagattg gtgttacctt tgaggatatt ggagcattag aaaatgtcaa ggaaactttg 300  
 caggagttag ttatgcttcc tttgcaaagg cctgagttgc tctccaaagg acaacttatg 360  
 aagccatgta aagggatatt gcttttttggc ccacctggca ccggttagac ca 412

<210> 31627

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A6

<400> 31627

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 tgtgcgagat cgagggccac cacctgagct ctgccgccat agtcggccac gacggcgccg 180  
 tttgggcccc gagcacgcga ttcccacagt tcaagccaga ggagatgacc aacatcatta 240  
 aggacttcga cgagcctggg tttctggccc cgatcggcct cttccttggc cccaccaagt 300  
 acatgggtcat ccaaggcgag cccggcgctg tcatccgcgg gaagaaggga tctggaggca 360  
 taactgtgaa gaagaccgga caggcgctgg tgatcggcat ctacgacgag cccatgaccc 420  
 ctggacagtg caacatggtg g 441

<210> 31628

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A8

<400> 31628

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ctcatgtgct acatctaacc ccatcaactt agctcttccc acatagacaa ccacgacagc 180  
accgattgag cccaaaacac cgaattttcca caattcaagc catacgagat aaccaacatc 240  
atta 244

<210> 31629  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A9

<400> 31629

agccgactaa agcatctgaa gaagcagcta atgttgatgg ctaatatgag aaagctacac 60  
ctaatagaaca agagactgggt gttcctgata aagatgagaa aactgtcgag ataaaaactc 120  
ataaaaaactg gactaatata agaacaagtg tcaccaaaga gaatggaagc cataaacgtg 180  
aatgcaataa gccagccaaa gcatctcaag aaaaataaga ataatgctac caaagaaatt 240  
gatcgctctg agagcagtg aacatataga ggtgggaaag aagagcattg ccaacaaacc 300  
aagaaaatg 309

<210> 31630  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B1

<400> 31630

tgcggactta tgtgacataa ctttcattta taagtaccac aagagaatca gcaggcacgg 60  
ttactcaagt aacggggccct agtacgatcc atctagcaat acattgcaga aactagagcc 120  
taaaagaacc aacacaaaaa actgcgcttt caccacggca tcctacgagc tgcacgaaca 180  
cgacagaagc catatacaca caactctctg tgatcacata atcgctagac tcaactcgta 240  
ctacgtaatg aaaggaataa ctagtggcct aaaaacagg ccacttacta tcaagactca 300  
ccaaact 307

<210> 31631  
<211> 417  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B11

<400> 31631

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gctgctctcg gtcagtgccg gcctcgagtt cggtttctac aacaagacgt gcccagcgc 120

cgagaccatc gtgcagcaga ccgtggccgc cgcgttcacc aacaactccg gcgtcgctcc 180

ggcgctcctg cgcattgact tgcattgact ctctgctcaga ggctgcgacg gctcgggtgct 240

gatcgactcc acggccaaca acaaggcggg gaaggactcg atccccaaca gcccagacct 300

gaggttcttc gacgtggtgg accgcgcca ggcgtccctg gagggcgcggt gcccggcggt 360

gggtgcctgc gccgacatgc tcgccttcgc ggccagggac agcgtcgtgc tcaccgg 417

<210> 31632

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B2

<400> 31632

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<210> 31633

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-H7

<400> 31633

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gcgggtgccg ctgctgctcc tgcggcaagg ccccgagcc ggccccggcc cccgccccgg 120

ccccacccc gccgcagtac ttcccgagc acatgcccc gccgtacccc tgcaaccct 180

gcggcgccgg ctaccggtac gtctgcgagg aggaccctc ctaccgctgc gccatcatgt 240

gattcgctta ttatcaatat catcccttga tgagtgtacc gtacgtgtgc gtaccatggc 300

cttaattacc attataccca accncaccct aaaaaaac ccagtatgtc gtctcatcat 360

cattccgtac ctctctctgt ataatcgccg tacagattca tcatatatat actctataca 420  
tatatagcat catgtaaaa 439

<210> 31634  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-059-Q1-K1-B3

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ctcagattat ctctctgtat cagaactatt accatctatc aagaacagac ccttatgtta 180  
ttcccattga gcctgctgct agtggtggaa tgaatggatt cctatgttta tctgaaagga 240  
actggtatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gctcagaaca 300  
gagttttgaa tgctgcctat ctcaatcctc agtatcacia acacatccca gagccttcag 360  
cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttctgtgt 420  
tgtggcatca aagatatagt cgtcg 445

<210> 31635  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F5

<400> 31635

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gttgggtgat catggattcc atggcattga gaagcttgca aggctagatt gattgtgttc 180  
tgccggggta aatcttgcgt ggcgttttga acgtggattg gtaaacagaa taccatcttt 240  
tgaacgtcgg tagttccatg tccacagctg atggtggtgg cctcgaatgt cgtactgtac 300  
gtacatgtcg atgattccgt ctcatgatcc tactactact atatccctgt tctatgtaag 360

atatgtgtac tccaattcag acaggatatg gacagctcac gattttttta tattgttcta 420  
cacatacatt ttt 433

<210> 31636  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F6

<400> 31636

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gacattggct atcacgaaaa tgccgctaag ttaaccgact accaattctg atcacaaaagg 120  
agtatttggg cagaagcccg caggaggcat taagttcaac ctacagttcc cccaactacc 180  
aactaatatt ggttagcaga cttctccctg tgatcgcaaa aatattccct gatcctctta 240  
tggggggcta gctagctgct tcccacccat gacccttcat tgacagtagt ttacaaccag 300  
catcaactct gaaaaaatgg gtgacccatc gccttccatc ttataaatag tgcacgatca 360  
ggtacagc 368

<210> 31637  
<211> 202  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F7

<400> 31637

aaaatatcaa attacagcaa aattgattca acatcaacat attcagacca tggcaagggt 60  
cattttctat gaggaatatg cctctaattt aaccaactac caattcttat cacatatgag 120  
tatttgttca taatccctca agatgcatta atttcactct acatttcctc caactaccaa 180  
ctaattattgg ttatcatact tc 202

<210> 31638  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F8

<400> 31638

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tacgaatttc aaaaattttg tattctattg gattggattt gttcgataat tcgaagaatt 120

acaacaaaat ctttagaaat cacattttta gttaggaact tctatggatt ttattcttct 180

tcttttcttt ggatccaaaa tagaagaata aaagaatagg tataagaatt aagttaagtc 240

gatccaaaaa ggaaaggagg ttcatggcca agggcaaaga tgttagaatc cgagttattt 300

tggaatgtat tagttgtgtt cgaaagggtt ccaataagga atcgacgggg atttctagat 360

atagtactca aaagaatcgc cacaatacgc ccggacaatt agaattaaga aaaatttgtc 420

gttattgtcg caag 434

<210> 31639

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G1

<400> 31639

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gggatatgaa aaaataaaaa aaaaaatata aaaaatatta aacttcataa aattttcaat 120

caagtctaag tgctttcaaa tgtcttcacc atagtttact actt 164

<210> 31640

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G10

<400> 31640

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ggcaaaccga aaccggtgga cgaccctgat cttctgagaa aaggttcaag ttgaagcacg 120

cactgtgggc acccgtttga tggatgaacta tgcttgatcg gctcgaagcc agacgaaact 180

cttgtggagg ctcaaagaaa ttctgacgtg cagatcgctc gtttaacttg ggtatacggg 240

caaatgacta atcgaaccat gtaatatctg gttgcctccg aagattcact cagcatagct 300



ggagccttca

310

<210> 31641

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G11

<400> 31641

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catgggtacg gagcgatcgt ccacctgcc a gatggaaggc ggcgtgatac ctgacgcaga 120

gatcctgcag aggctgcagg gatggacgag cttcagcagg gagctccctg ggatggtgct 180

ggagatcgag aggtcggat tcaaggagct ggtggacgag gtggtgcatg gggagtctgc 240

cgacggcccg gagatgaagg cggcaggcag gcggagaagg cggcggctct ttgcttgata 300

tggtttgtgt gaccatcacc atgcaccggg tgggttgctc aagtagatgg gcctgatcat 360

gctgtaactt tgattgccgt atgaactttt tttctctctc aaggagagg tgacaaagtt 420

gtactgttgt ag 432

<210> 31642

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G2

<400> 31642

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tctgcggcat cattgggcat ggggttctgc aaatagggtta aactatgctc taacatacac 120

tgtattttgc gagta 135

<210> 31643

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G4

<400> 31643

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 gtgcaggcct tcacgtgtgt ttgcctctct acctaaagaa taaatcaagc tagcagcaaa 120  
 cctaccttcg gcgtgtgtct acttgcttat catagtgtgt gtccgtgtat gagagatgat 180  
 gtactgtcac gaactcacgt gtgtatgaga gaggatacat ggtaagacta tcactact 238

<210> 31644  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G7

<400> 31644

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 gaccgtatctt ggtgtcattt cacatgattt atcttcaggt gctgcaatca agatttagga 120  
 gagttattaa gctaccataa actatgtgaa aaacagtgtt ttcaactatg gtacattctg 180  
 catgcgaagt atctagcatg ctgatcaaaa gaatcattaa ccatagggac caaaaatggg 240  
 tgaatttatt tctccagtag gttatctcta aagcataaat gtttaggtac aaatttaagc 300  
 aaaaaaaggg tgaatgaagg ttactgcca acatgaccaa tgaaaatcga aggatctctg 360  
 aattactgtt gaagaccaag ggaaggtagt ctttcagtca atcaggtagt acaaatga 418

<210> 31645  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G8

<400> 31645

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 gtggcactgg tggcggaat ggcaatgctg gtgggtacgg aggaggaggc ggcggttatg 120  
 gaggcggcta cggcagtggg agtggtagag caccaggagg cggatatcat ggcgggtggtg 180  
 gtgcacaacg ctacgctggg cagaactagc aagaacaacc ccttatgcta gtttatgtta 240  
 aataaacgat ccattgttca tgtgactgag caatttaagc agtgaaggat cttgactcgt 300  
 gttatttgtg ttaccatatg tattggttgt tctatgttta agatgaatgt acaccgctat 360

ttgtatgtcg aactcgttgc atggagatg

389

<210> 31646

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H1

<400> 31646

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aattgggttc catgctggcg ggtgctctgc tcgttgcata cgacgtttgc gtacattcct 120

acaaccgtgc actccatcgt cgtctgctac atgcacgctg ggcaacaacc tgc 173

<210> 31647

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H10

<400> 31647

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ggggcgcagc tccacctcat cgaccccgac cgcagcgtcg acctcggcgc tggcacgctc 120

tccatcgtgc gcctccgcca gggggaccac tccgtcgccg tcctcgcgcg cctgateccac 180

gagaagtccc accgccgccc cggcctcttc cgcttggtca gcagcgggcg gtctgacgct 240

ggcgcgcgagc aggagcccgt ccagtggccg ctggcccgcg atgtcgcggc ggtcaagctc 300

gaccccgcg cactacttctt ctgcgtccat gtccacaca cggaccaccc ggacgacaag 360

gatgacgcgg acggtgccga agcggacgcg gaggtgcgc tgagctac 408

<210> 31648

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H11

<400> 31648

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gggcttcgtg ggtgagcggg tgcgatggc ggcgtctgat gttgagtacc gctgcttcgt 120  
 cggcggcctg ccctgggcca cggacgacca ctccctccac aacgccttga gcacctacgg 180  
 cgaggctcta gagtccaaga tcattctcga tcgggagacg cagaggtecc gctgattctg 240  
 ctctgtcacc ttctccacgg aagaggccat gcggaacgcc atcgagggca tgaacggtaa 300  
 ggagctggac ggacgcaaca tcac 324

<210> 31649  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 attgagcatg gatgcagccc gtgagttgct gctaaaattt ggcgtacctg aagagcaaat 180  
 tgataaatta acaaggtggc atcggatcgc tatggtgagg aagctttcaa gtgagcaagc 240  
 tgcacgga attactatcg atgaaattcc tgtagtaag tttgcacgtg gacaaaggat 300  
 gtcttttctg caacttcagc agcaaaactag ggagaaatgt caggaaattt gggacagaca 360  
 agttcagtca ctttcagctn tagatgggtga tgacaatgcc agtgacacag aagctcacag 420  
 tgatctagac tcatttgctg gggatct 447

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 <211> 74  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F2

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 agaaaaagta aaaa 74

<210> 31651  
 <211> 432

<212> DNA  
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<223> Clone ID: LIB3068-058-Q1-K1-H2

<400> 31651

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 cggggcaaca acctggatcat cgccgacccg ctcacccaca ccagcgaccc ctacgtcgctc 180  
 ctccagtacg gcgctcagaa ggtgaagact agtgtccaga agaagaactc caatccagtg 240  
 tggaacgaag tactgcagct ctcagtaaca catcctacga agccagtgc ccttgaagtt 300  
 tttgatgaag acaagttcac agcagacgac agcatgggtg ttgctgagat caacattact 360  
 gacatctacg atgctgcgaa gctggacctg aagcacgcct cttatgggac aaggatcaag 420  
 acgatctacc ct 432

<210> 31652  
 <211> 150  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H3

<400> 31652

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 cgaacatggt taaatccaac atgtgaatca tttaactata ttataatgtc aattaaattc 120  
 caataaaatg gtccaatttt tactatttta 150

<210> 31653  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H6

<400> 31653

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 cttctcggag tggaatgccc ctaagccaat gcacacctct cttttgaatg aggccttgcg 180

atggacagtt acggccaaaa gaaagatcta tggtcaccct tgccatatca ggggtggaaa 240  
ccatgcttaa cgccatcagt ttctcacaaa ttacctctgg aaccaagtgg tcattcaagt 300  
atttcttgat ggtggattga accaacaaag aatggggata tgtgatgcca ttgcagttgc 360  
aaagattctt aatgctactc ttgtgatccc aca 393

<210> 31654  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D3

<400> 31654

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caggtctaac agggcaagga acccatcgaa cggcagcaca gcctcacacg cacctgccaa 180  
acatacaaac gccagcacct tctcgtttgg agatgccaac actgacagca cgccaaagac 240  
ggtaaggaag ataaccggca agaaggtcaa cgacctcacc ggcaacgaca tcttcaaggg 300  
agacgctccg ccagcttctg cagagaagca tctgagcacc gcgaagctga aggagatcac 360  
tggaagcaac acttttgcag atgggaaaga accaatccgc gagcgtgtgg g 411

<210> 31655  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D4

<400> 31655

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gttattctcc ccctgtctta tgctgaggct tgtaaagttt tgaaagttcc aagtgtatag 180  
ctgtactgtt tgtgttgctg agtaaaataa aaaagtacac aatcaaatat catctaaata 240  
atactcagaa aattaacctg ctatga 266

<210> 31656  
 <211> 201  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-D5  
  
 <400> 31656  
  
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 tagcgctgct gctggcaccg gcggcgacaa cctcggatgc cggcctcacc tgaagactct 180  
 cgagctccgg catatcgccc t 201

<210> 31657  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-D7  
  
 <400> 31657  
  
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 ccggtgctgc ttctggcacc gcggcgacg accttgagg cgcctcac ctgcgggcag 180  
 gtgagctccg ccattgcgcc ctgcctcttc tacaccgcg gcacggggtc cggacccttc 240  
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<210> 31658  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-E1  
  
 <400> 31658  
  
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 ttaatctctt tcatatgttg aaattgactt gtacttacta acactcttgg ctgacttaca 180  
 tatacatgag ctgagctata gatctctgcc ttattacac atcctcaact gagtactaat 240

ccattctcat tctactatat tggccttatt aactatatta ccacttcttt accatcttta 300  
 acaaagacct ccactttt 318

<210> 31659  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E10

<400> 31659

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 agacaagaac ggtgaacaaa ctgctgagtt cccttgacaca tgcaagggtga tattagctca 180  
 tcacctatct cagactcagc ctcaaggcaa atgcccgaac acgcagcaga agagccgtcg 240  
 gtctcttcat cctcaatctc cagcaggttc acagttgctg gctgtggcgg tgacagctct 300  
 actgatgact ctgactccct gttctccctc ccaataagag ggtccgaatc atttgggacc 360  
 acctcttcca gttcgggtgtt cctatccat 389

<210> 31660  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E11

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 gcgggacgca gcagaagtgc aaggtgtgca ccaagacggt gtacccgatg gaccagctct 180  
 ccaccgacgg cgtcgtcttc caccgctcct gttcaagtg ccagcactgc aagtctaccc 240  
 tctcactgag caactattcc tcgttcgaag gagtgccgta ctgcaagacc catttcgagc 300  
 agctgttcaa ggagaccggg agttacaaca agagcttcca atcacagtca cctgcaaaga 360  
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<210> 31661  
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<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-058-Q1-K1-E12

<400> 31661

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aggatatgac aatgactcct cctggcccg c gaccgggtgaa ggatgcatat tgccttctga 180  
actttggtga cagtatcaca actgatcaca tctcgccctgc cggaacatt caccagaca 240  
gcgagcgtgc aacatatctg aaggagcgtg gtgttgaaag gaaggacttc aatcatatg 300  
gtagccgaag aggaaatgat gagatcatgg ctaggggaac ctttgccaac attcgtcttg 360  
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<210> 31662  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E2

<400> 31662

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gtcgcccgcg tggcgccgtt cgaccggtgc tacgactcca ccaagctccc gcagagtctg 180  
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ctcgccggca actccatggt gcaggtgaac gccaacacgg cttgcctcgg ctctgtccag 300  
gcgcgggggc aagcgccggc ggccgtcatc ggtgggttcc agctggagaa ccacctgctg 360  
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tcctgcagca gcttcaattt c 441

<210> 31663

<211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-E3  
  
 <400> 31663  
  
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 caattgggta gagagggtga cgataagtca tgtctggaag cccacttccc agccaaggag 180  
 agttagtgct gatgctaagc cacatacaag gaaggccagc tatgcaatgg aaacagagtc 240  
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 aaacactgcc attgaaattg agaagacaag acggaatcca agg 343

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-E4  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-E6  
  
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ccgccttccc acggacactc ttggccttgc cctttctctc ccttgtttgc tacctcgttc 180  
 ccgccccgc ctgtgcttcg ccgcacgtca tgccagggcc gtcgcccga gggcttcctc 240  
 atcctctgca tcaccggact cttcattcgg ttcgcggtatg gaggagtccg tcaagaagac 300  
 gggggccgac aaccccgttg tcctctactc caagtcattg tgctcatatt gcatggaagt 360  
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<210> 31666  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E7

<400> 31666

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 gacgacatat gggttcgata tactcttata ttcaacgaat gggcccgctt tcaatgcagg 180  
 tcgaaacata tggttgcccg gatggttgaa tgctgttaat gagaatagta attcgctttt 240  
 cttaacaata ggacctgggg atttcttggg tcctcatgct attgctctag gtttgcatac 300  
 aactacattg attttagtaa aggggtgcttt agatgcacgc ggttccaaat taatgccgga 360  
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 ta 422

<210> 31667  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E8

<400> 31667

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 gatagggggc ttataggggt ttatcatgac tgggtgtgaac cattctcaac gtatcctcgt 180  
 acctatgac ttattcatgc tgatgcaatt gactccttga taagtggccc gatttcaggc 240

actagcagat gtgacctgtt tgatgtcatg ttggagatgg atcgcatact gcgcccagaa 300  
ggaactgccg ttatacgggc ctgccagac gtagtagcca aggcagcaca gatcgctcag 360  
tcgattcggg ggaaggcaca ggtgcatgac agtgaaccag aatcaggcag t 411

<210> 31668  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F1

<400> 31668

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acacaccact atgattgatg gtttgggtgt tgctggctgg ggggttggcg gtgtagaacc 180  
caaggc 186

<210> 31669  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F11

<400> 31669

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atccgatcca atttttcgta atcgattagt taacatgggtg gttaaccgta ttatgaaaga 180  
cggaaaaaaa tcattggctt atcaaattct ctatcgagcc gtgaaaaaga ttcaacaaaa 240  
gacagaaaca aatccactat tggttttacg tcaagcaata cgtagagtaa ctccaatat 300  
aggagtaaaa acaagacgta ataaaaaagg atcgacgcgg aaagttccga ttgaaatagg 360  
atctaaacaa ggaagagcac ttgccattcg ttggttatta gaagcatccc aaaagcgtcc 420  
gggtcgaaat atggctttca aattaag 447

<210> 31670  
<211> 312  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D2

<400> 31670

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gaccggcgcc acacgggcgt catgggcctc ttctacatcc tcgtggccga ccacgcccgg 180
cagctgccgc cgcaggaggg cctgtgcttc agctttccgg tcccatgggt cctaccgtca 240
tggctgtcga gcaacctgtg agatcttttg gtgttgaaag ctggtgctat gttctaatta 300
gctgcttggt ta 312

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<210> 31671

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F12

<400> 31671

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accacatact catatccaat ttttcataat caactactta acatgctaata taaccatatt 180
atgaaatact aacttttaata cattcatctt attaaatact ataccatata cataattata 240
ttcaacataa gacacattca aatacctcta 270

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<210> 31672

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A9

<400> 31672

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gaccaccgtc gccaggttcc ggcgcgcac ggcgacgtgc agggccagca gcggcggtgg 180

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cggtggccgg ggccggcga aa atgatggcct cctttggctg ccccgccggg acgtgatgct 240  
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 ggatgcggtg tgcaccaggg ccgacaaggt gaacgagaag accgtgcagt gcacggaccc 360  
 ggccgggcag cttccgtgcc ctctggtgtc gccgacggac cccgtggact tcaagccgga 420  
 aagcaagggtg acgcgcattc ggcagc 446

<210> 31673  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-058-Q1-K1-B1  
 <400> 31673

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 ccactccact ccgacgact cgctgagat tctcgcaggg actagtttgt ggcggaatct 180  
 caaaccagg aacctgtgaa tcctcgacac ttgcgaaaca tgagaagggt ctttttcttc 240  
 ggggtccctg ctgcaaacgc tgggtgagggt gccgggcaac cggatcaatga tagcaggact 300  
 ggacatagaa agacagatga gggaaaggac atctccaccg cgagattgtc gagatccaga 360  
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<210> 31674  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-058-Q1-K1-B11  
 <400> 31674

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 agatggcggg ggcggccgaa gcggacacgc cgtcgcagga gccggtgcgc acgggcccga 180  
 gcaacacat cctgctcccc atcggcggca tcctcctggc ctacctgtc taccgcttcc 240  
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cgccgaccgg cggggggcgcc gtgctgccct atttcgcgcc catcgccgac cgctcggcg 360  
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<210> 31675  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-058-Q1-K1-B12  
 <400> 31675

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaataa aaaaagggtg gcccttttta 180  
 aaaattcaat gtttattatc ctacaaatct catgtcatta tttttttttt agtttaccta 240  
 aattaaaatt ctttggcctc tttttaaatt attccttttt gtaaaaacct ttatgtgccc 300  
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<210> 31676  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-058-Q1-K1-B4  
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 aatttttact agaactaccg gatttcctgt acattattgc tgctgttatt attcggacca 180  
 cactagccta ctaaaaagga acatttccaa taatgtaatc ttgcgcacct tt 232

<210> 31677  
 <211> 151  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B5

<400> 31677

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa 120  
aaaaaaaaaa attaaaaact ataaattttt t 151

<210> 31678

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B7

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tgtcattggt ggacctcacg gcgatgctgg cctcactggc cgcaagatca tcattgacac 180  
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tgaccgcagc ggagcctatg tcgcaaggca ggtgccaag agcatcgteg ccagcggcct 300  
tgctcgccgc gccatcgccc aggtgtctta cgccatcggc gtgcccagac ctctctccgt 360  
gttcgtcgac acgtacggca ccggcgcgat cccctgacag gagatcctta agattgtcaa 420  
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<210> 31679

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B8

<400> 31679

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tcttacgggc ttgaatagag ctaggactgg gagaaaacaa caaaccgcg ttggatcctg 240



tatcgggttag tccttgccctt caagggttcat gttgttttgt tttggtggtc gagcatcgca 300  
 tgttctgctt ctggttccag atctggagaa atttctaagt cgtcgtcgtc gtcgtcgttc 360  
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<210> 31680

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C12

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 gcaaggattg cacctacctg agcactccag caatgaagat ccctgaaacc atgcaaaata 180  
 tccatgcctg cgagaactgg ctgccaagac ggggtgatgag cgctggcgcc atcggcgggg 240  
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 agaaagcatg gtcagctgct attaggcacg gattcgttcc tttgacgaaa gcctgaaagc 360  
 ctgtacgcaa ctctagacgc cattcgacga tggctggaaa actacgtttc agcaatcggc 420  
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<210> 31681

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C3

<400> 31681

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 atggttgtgt gggctgtgct gtgaggcggc cagagatgaa gcatgcagga ggaaggctca 180  
 ccatggagta gaggaggctg tgagggtca catggcggtc tgcaacatgt tcaagttgaa 240  
 cccgcgcgtc cgcgtggccg acggcatgcg ccagatgctc cggaggcggc ccggtgatat 300

gtcaaagcca gaatcgggca agaagtacga atcatcagtg aactgtatt gaagagtt 358

<210> 31682

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C7

<400> 31682

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tcaggtcaca cgtcaatggt cttaaataatg ctgttctaca acacattagc gtcaccaagc 180

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atcgtgttat tgaaactgtc actga 265

<210> 31683

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-C8

<400> 31683

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accgaagtgc tgttcgatat cgacgctgac ggcgataaaa ccgtcgacgt cgttatcgtg 240

ccgcgcacaa atgctaagat cagcgtcaac gctcgcccca ccatcaagaa tcggaactag 300

gagctagctg ctactagtgc tcatcaagca cactgtacgt acgtacgtat gtactcgatc 360

gcgtgggtcat tcatcgacca tcatcgnnta tatgctgtca cgcacagtgc gggacggcca 420

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<210> 31684

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C9

<400> 31684

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ggatcggccc ggctaggcct ggcccttgag ccaaaaggag gggcggttcc cctcttccga 180  
cccacggaat atttaaaata acgtttaaag tattgtgtat ttacttgctc ccggaggctc 240  
ctacttattc tacacctttc atgtctatat cacaaa 276

<210> 31685

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D1

<400> 31685

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tggtggcatg gttacgcgca ccgtccgtat gcgtaacgga tcttgctggt ccggcgatcg 180  
ggtcagggcg tgtacagctg tcgcccgtgc ccgtggacaa agcccgtggg tgctaagcac 240  
acacggcaga cgaacttgcg cggactgtat ccgcgcgcct gttgcgagcc cctcggagca 300  
ctgcgctgca acaggctgct agc 323

<210> 31686

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-D10

<400> 31686

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caccttgagg cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180

cgtcacggt ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240  
cacgtccatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300  
ggagaaaagg aaaaagagcg catgactgct gtgaataata ttatcaggac cttcctcgga 360  
cacaacatcg tcgacaatca cgacctactt ctatacnct tgtttgtttc atcttgagtc 420  
agtcg 425

<210> 31687  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A8

<400> 31687

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tttccacacc aaacacacat taaaccatgc attcactcca ctactccaga ttaatctttc 180  
acacatgctc taaaacatac ttacttgcac tccgcccatc ctacattatt cttttctctt 240  
aatactctc tatccatcta ttatctactt ccttcaacc ttttcataac aaccttttta 300  
catcacaaaa actcaatcct attaatccaa tcattataca caataccttc actacaacta 360  
ctaactctatt attacactaa taatat 386

<210> 31688  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D11

<400> 31688

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atgctgagcc accgcggcga cagcgggtgc caggggcct tctacaccta cgacgccttc 180  
atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca gacgcgcagg 240  
cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccgttg atgggcgact 300

gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa acagacggac 360  
ccaccctact atggacgagg acccatacag ctaactcata agtacaacta caggctcgcc 420  
gggcaagcgc tgaacctgaa cct 443

<210> 31689  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D12

<400> 31689

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catggagagc gtcgtgaaga acatcatcct agaagaaggt gcggagaggg caaaagtcgg 180  
cctgatggtg atgcctgggtt tcctgatcgg gaccagcgtc atacagtccc gtgtgtacct 240  
ttc 243

<210> 31690  
<211> 390  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-057-Q1-K1-G6

<400> 31690

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cctcccacgc ccaagccgac cccgccaacg tacacccctt cgccaaagcc ttcgacaccc 120  
aagccgaccc cgccgacgta cacccttctt cccaagcctc cgacgcccac gccgaccccg 180  
ccgacgtaca ctccaagccc caagcctncc acacacccga cgcccaagcc gacccaccg 240  
acgtacaccc ctcccccaaa gcctncgacg cccaagccga cccacccgac gtacaccct 300  
tacccaaagc ctncgacacc caagccgacc ccaccgacgt aactcccac accgaagccg 360  
ccggccacca agccgtccac ctacactccg 390

<210> 31691  
<211> 345

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G7

<400> 31691

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 tcgagcagag ccgccagctg atacctcgga tgctgactta gatgctgaca gacatgatcc 180  
 gacacacagt agcttacacc cactgtcttt gcaactaagt gcgatgacca actctatgac 240  
 taaacgggtg atttaacact aggtcgaatt actatcgga tgactatatc agtacggtca 300  
 tactaacctg tatcagcacc tgcttaacgc aggtcacgat ccata 345

<210> 31692  
 <211> 164  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H10

<400> 31692

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 tcccctgcgc tactgtcct cctcacccca ctcccccgca ggagcggcgg cggcggcggc 120  
 gaggtcgtac cccacatcgg cgagcggcgg cggcaccgcc ggag 164

<210> 31693  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-057-Q1-K1-H11

<400> 31693

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 tgtacgccgg cagctcgtcg cggccgtggc ggtgacggtg gcatgcttct actcctcgga 180  
 ggcgacgcag ctgcaggtgg ggtactacaa cggcagctgc ccggccgccc agagcctcat 240

cgagaccatc gtccacgccg ccgtccgcaa ggacgccggc aacgggccgg gcctgatccg 300  
 gctcttcttc cactactgct tcgtcagggg atgcgacgcg tcggtgctgc tggacgaccc 360  
 gacgggcagc ccggggaaca ggacggtgga gaagacgtnc ccgcccaact tccctagcct 420  
 gcgcgggttc agcgtgatca 440

<210> 31694

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H12

<400> 31694

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 ggcaagggtc ggtccttctt ctcccgtccc cgcagcggca agcgcggcag cggccggagg 180  
 gcaggctcgt cctcgccgca ctctccgcg gcgagcgcgc cgccgtcccc gtccccactc 240  
 ccactcccga ggaggtcgcc gtcgtcgtcg tcaaccacaa ccagggacga gacggagcgc 300  
 gtgttccgca agttcgacgc gaacggcgac gggcagatct cgcggtccga gctggcggcg 360  
 ctgttcgagg gcgtgggcca cgccgtgacc gacgacgagg tgtcgcgcat 410

<210> 31695

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-H4

<400> 31695

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 aagttgcttc catgcttgca gctgctctgc tcgttgcaac gacgtttgcg tccattccta 120  
 caaccgtgca ctccatcggc gtctgctacg gcacgctggg caacaacctg ccgtccagca 180  
 gcgacgtggt gcagctctac aggtccaagg gcatcaaagg catgcgcatc tactcccccg 240  
 acgccaaagc cctcgccgcc ctgcgcaact ccggcatcgc gctcatcctc gacaccggca 300  
 acggcggcgg cgctcctgggc cagctcgcca ggagcgctc gttcgcggac tcgtgggtgc 360

agagcaacgt gcgggcctac taccgccnccg tcggcatcaa gtacgtcgcg gtgggcaacg 420  
aggtgcangg cgacgacacg cgc 443

<210> 31696  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H7

<400> 31696

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tactataacg gtcaatggcg atgaaattca tatggatcag ttagggaatg ttgatgaccg 120  
taaaaaatct ggggttcagg cattgcaa ataatgcttgc tcccagtgtg ccatttttga 180  
gtctggtgtg ttaaggcagc ctatgcggtc aaggggactg cttgctcggc cttatattca 240  
ttcaatgctt gctatagcag cagtctcgt atgcgtctgt gtattcatgc gagctttgct 300  
gcggatcaat tctggaaaat ccttcaagtg ggagaagctg gattacggta caatataatt 360  
gtggggacac acctgagcct tgtggtatta ttaagttaac aagcaagttg tatggagcta 420  
ttttgg 426

<210> 31697  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H8

<400> 31697

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aagagggagg atgtggtcat caacggctgg gagaccgagc aggtggagaa ggcctccgcg 120  
tggtcaaga agatcgagag gaagctggac gagcagcgcg ccaaggcgct ggagaagacg 180  
cagaacgaca tcgccaaaggc gcggcgcaag gcggaggaga agcgggctgc ggcgaggcc 240  
aagcggggcc tcaagctggc caaggtgctg gagctagcca acttcatgaa ggccgtcggc 300  
agggtgccca ccaagcgctc cttcttctag ccagccgact acccctgccca cttctgtctc 360  
tccctgcctg cgtgtgatcg atgtacgctc gctgctgcat ccgagaacct aactgt 416



<210> 31698  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-H9  
  
 <400> 31698  
  
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 aaaagaaaaa gtaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaataaaaa aataacttaat ttaataaaaaa aaaaatttaa tttaatagtt attttattta 180  
 aacacctaaa tataataaaa tcctaaaatt tctaaaatta actgccttta aaaacattac 240  
 cattacccaa tttaatcttt tattaaaaca ttcttaatta ataaactttt ttaat 295

<210> 31699  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-A1  
  
 <400> 31699  
  
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 gctctgctct ccctcgccgg cgtgctttac gatcgtggtg tgtgtaagga actaacgacg 120  
 acggtgcctg gattaggagt ttagctatag acgaaagcac gtacggccgc gtgcctggtc 180  
 tagctacgcg gactggttga tcttgagcag ttaagcgtgt acgaaacgac agctgtgtac 240  
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 gctgatgtat gaacaggatg ttacggact atatatagat 340

<210> 31700  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-058-Q1-K1-A10  
  
 <400> 31700  
  
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taaagatgcg gtggcagcat catactctat gcaagctaag agtgacagct gtgtttcagt 120  
cacatatatg atctagtctg tgtgtcaatg tgtcgaaaaa catgtctgtg attttgttat 180  
atgaatgtaa cgcgcaatga aacatacagg actagctgct tgcttgacga tgcgtttgcg 240  
tgtatccgta taaattaaag gctataagcc acatcgata tgcgtactgc 290

<210> 31701  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-058-Q1-K1-A11

<400> 31701

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agtacaaaac cgaccgagaa cagcaataag ctagctacaa atcgggtccc agcccggaac 120  
agcccaggga atcctgtact taggcattca cgcagcttgc ctgaaactgg tcgacgagca 180  
gtacagaagg tctcatcaat cacagagaaa ctgtcgcaaa tgtcgggtgac ctccagaaca 240  
cgaagcgccg tgaagcctgc cgtcccgcgc atgaaggccg gacatggcaa gtcagacttc 300  
ctgggggaagt ctgacgatat cctccggca aagaggctga cgagaaaatt ggtcagctaa 360  
acaagggtac gtagagtga aatccgatca tctgcaggag ggtggaggga tatggtgtat 420  
agtgtgcang aaccagtgtg ccga 444

<210> 31702  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A12

<400> 31702

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 60  
agaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120  
aaacatcata tataaatcta tacttttagtt actctacatt gaaaccta atttattctt 180  
tggtgtgact taaatcactt tatgtgtcct aaattcttaa acatatgtat tggaaaacct 240

ttgctttatc ccaagttaat cctattgtac ataataccta ttt

283

<210> 31703

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G3

<400> 31703

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agttaagcaa agtatcttta tggcgtctgg cagttcgcag tgagctgtac tgtaggtgct 120

tttgcttaag cgacaaccag tttgcagatt ggtcacctct tctcctgtc cctgatgaca 180

ttgaggctga tgtttatggt cctgaagccg atatcctgtc agtcttagat gtgcctcctg 240

ggaaaatggg acgagttatt ggcagaaagg ggtcaacgat aatggctgtg aaagaatggt 300

gcaagggtga aatacatatt ggtggtgcta aggggcctcc agacaggggtg ttcatcattg 360

gaccagagaa ggaagtcagg aaagctgagg ccatctttcg aggcccgatg ctgg 414

<210> 31704

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A3

<400> 31704

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tctagagaac tctggccaag cttgcgctca cgcaacggac ggcatagcaa gggagcttac 120

tcattttggt catagtaatg ctaatatctt cgagagtaat gaggtccctg cttctgagat 180

tactgggggtg gaatataatc aaggtgcctc tggttttcct caaccaacgg aggatgaaaa 240

tgcggtgggg tataatcaag atgtctctgg ttttcctcga ccaacggagg atgaaaatgc 300

ggtagattat aatcaagatg cctctgggtt ttctcgacca acgggagatg ttcaaagtgc 360

ctctgggttt cctcgaccaa cggaagatga aaatgtggga gattataatc aagatgc 417

<210> 31705

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A4

<400> 31705

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ttaaaaatca ttttattaat attaatgctt aaatttttta aaattatttt tattttattat 180
tttaatttaa atttaattta aatattttta a 211

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<210> 31706

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A5

<400> 31706

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ggatggagga ttagagcttc attgcaagct tgctcctcct gcagggcagg catgtcgcac 120
agcaaatggg catgaaaagt tgaaggcgct ccagtcctcc agcttgtgta gtacacagta 180
gcaataaaac gttagtgttt gtccctgtgcc catcctgtat tattctgttc cagggtttca 240
cctttatcgt cagtgtgtgg tcagggtttca acccttctca gaacaacccc ctcccagaaa 300
aaaaacaaag gaagaagttt gtgtccaggt ttcagaatcc cctgtctgta attaccattg 360
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<210> 31707

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E3

<400> 31707

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ggaaggtaaa gcttacactc cactctaacg gtatcattta cccttcgtcg ctactccgct 120
ctctctccaa ttggcataat ccttcactct catttacttg taccaattga acaaaagtaa 180

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aaacgggctc aaagtctccg atttcggcaa ttaatgccaa aggagaagat attaagccca 240  
aagcacaaaag gaccgcacca ccatttcaaa aaatttcaaa ataaagattt aatcgatgat 300  
tttcacattg gtatccacac aatggacatc tcttcaattg gtatctttaa aggtagattt 360  
tcaaaattgg aatccaattc tctagaaggt catctttaa at 402

<210> 31708

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E4

<400> 31708

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tgtgtctctg gtttgcgtga acttgatctg gtcttaagaa ccccggtggc gggttgacat 180  
atgcaagggt taagtgtac atatgtcgtg tgattggaga tctcagttg agtataatcg 240  
attcggatcg ccgtaccttc gcggttatga agaattggc acttcctgc aacctaaagt 300  
caggatgtga acactatgga taaaaatgat gttgtattga tgaaatgttg aaattagact 360  
agatgcaa at agaggctatt aatactta at a 391

<210> 31709

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E6

<400> 31709

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gaagccgagc cacacatcga tctacaaaga tgcattggac acgactctta tcttagctaa 120  
ttaataagca ctacatccat gcatgtccac aatagggccc tagccctact atactatacg 180  
tcgtcagcag aaagtctggt tttgatttca ataataagat gcacctatat gtgtgtgtta 240  
catgtacgcc gttgtcttaa ttactgtgtg gtgattggac tc 282

<210> 31710

<211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-E8  
  
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 aaaaaaaaca taaacttacc atcaagagat ctacaatgag tctcatcatc actgactact 180  
 gcatgcccct acattacacg ataccatctt ctcaaacgca tgtaagggtc ctcatatctc 240  
 aaagacattc cgatggtgat catttcatct tataacctgc ctttcccgat ca 292

<210> 31711  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-E9  
  
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 tcaactgaagt aaatgaaatc ttcaaagatc ttgctgtgct agtccatgat caaggagcaa 180  
 tgatagatga cattgattcc catatagaga atgctgttgt agcgacttcg caggctaaag 240  
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 tggttatctt cggcgtggtc ctgctcatag tgataatagt acttgcagca taaaagcttg 360  
 gaaggcagct gaggttccga tgatcgagct tattgcgatg aattccttat tattattttt 420  
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<210> 31712  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-F1  
  
 <400> 31712

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agttgttgct tacaagtgat ctgatgctca agcataggta cttcacagca tttctggcat 240  
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ctgctgctgc tgggtctggt atcccttgag ttaaagcata ccttaatgga gttgatgctt 360  
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<210> 31713

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F11

<400> 31713

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gtcggcgact acgggttcga cccgttcggt ctcggaagc ccgtggagta cctgcagttc 180  
gagttggact cgctggacca gaacctggcc aagaatgagg ccggcggcat catcggcacc 240  
cggttcgagt cctccgaagt caagtccacc ccgttgcagc cctacagcga ggtgttcggc 300  
ctccagcggc tccgcgagt cgagctcatc cacggccgct gggccatgct cgccaccctc 360  
ggcgccctct ccgtcgagt gtcaccggc gtcacctggc aggacgccgg caaggtggaa 420  
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<210> 31714

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F12

<400> 31714

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gcacccctgat aatacattgt ggcaataacca cgtgggtgcac gccaatctct cctttccctg 180  
catagcttta ttgacaattg atatgcttag ccgtgggggtt ctttatttat ttgttgtagc 240  
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cgggcagatg cttgttttaa gacagcaatt cttgtactcc gtagctaaga atgaatgcc 360  
tataaatgtt gcagtagata agcatcaagg agtgtaagat gaagatggca gttcttttgg 420  
tttatgagat gagatgggtgc tctaa 445

<210> 31715

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F2

<400> 31715

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cgtgagtctc atcatcactg actactgcat gcccggcgat acaggatacg atctgctcaa 180  
gcgagtgaag gggctctcat cgctcaagga cattccgggtg gtgatcatgt cgtctgagaa 240  
cgtgcctgcc cggatcagca ggtgcttgca ggatggcgcg gaagagttct tcctgaagcc 300  
cgtgaagccg gccgacatga agaagctcaa gtcacacctg ctgaagcgga agcagcccat 360  
gcagaagaac aagc 374

<210> 31716

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-F4

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gtcacagagt tgattgtccg catcagtggg aagccgcctc cacaagccaa gaacaaccca 180  
ggtagggggc ctggttctca tgccgggggt cctggaagca acttcaaac caaattgtgc 240



gagaacttca acaaaggctc ctgcaccttt ggagacaggt gccacttcgc ccatggcgaa 300  
 ggtgagctgc gcaaacctgc tgctgcttga caggcatgct nattgtggcc tgtgggtgatt 360  
 aatctgcttg tatggctgaa taacaccatg 390

<210> 31717

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F5

<400> 31717

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 atccatgggc agctactcga ataccaacac aagcggcgagg gccagcgaca aggaggacaa 180  
 gaacgaggac aaggtctaag gcaaggactc gtcgaagcca tacttcaagg agaacgaatg 240  
 ggtcctcgcc taccactgcc acgtcctcta cgaggccaac gttcacagga tcgaagacca 300  
 tgaatacgaa tggcactact ttggccatta tctcagctgg aataagaact gggatgaatg 360  
 ccttgcaaat g 371

<210> 31718

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F7

<400> 31718

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 aaaaaaaaaa aaaaaaaaac tttttaaaaa aacaaaattt acttcccttt ttataaaacc 180  
 caattttttt tcttagggta ccttaaatta aattttttta tccgggtattt tacaattaat 240  
 ttaatttgaa aaactttttac attaccaaatt ttaataaaact tttagaaatt cccattttta 300  
 ccactttgca aaaaatccaa ttttcccaaa ctgattaatt tttaaaaaat ttcccaacct 360  
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<210> 31719  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F9

<400> 31719

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gcagtagtta aacaaaagct ttctcaagag gaagaagaaa aatttaagaa tgcactgcaa 180  
ggctttcaag caacgctgag taagtcgcct aatgatccta ctgctcttga ggggtgcagca 240  
gtatcgttgt ccgaactagg tgagtatgag aaggcatcaa cattccttga gaagctaatt 300  
aaggtaatcc ctgataaagc agaagcatac cgtttgcttg gtgaagtaaa gtttgaactc 360  
aaggattatg aaggggagttc atcatcatac agaaatgctt tatcttcatac agataatatt 420  
gattttgaag ttctacgtgg actgacaaat t 451

<210> 31720  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G10

<400> 31720

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tgataagcag atcgagaagc gcataaggag acaacttcat gggctaggag gcttaactga 180  
cggtttcgac cttgggatga acatgctgtt gggaggagac aaggaagatg atggtggttc 240  
aagcaagtca catggcaaga gcggaaccg aaagaagcac ctgaagagca acaagaagag 300  
gaagaggcat tagccttggg cccacactgc tgtagcactt caacataccg atacagccta 360  
gaagacggtt caagcaagcc acacggaaag ttgaagctgg agaaaatacc aagaaaccaa 420  
gtagag 426

<210> 31721  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-G11  
  
 <400> 31721  
  
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 gccgtggaga tccaggccga cgccgggtac gggtacggcg gcgggtacac cccgacgccg 180  
 acgccggcca ccccgacccc gaagcccgag aagcccccca ccaagggggc gaagccggac 240  
 aagccgtcca aggagcaca gccgtccaag gagcacgggc ccaagccgga gaagcctgcc 300  
 aaggagcaca agccgacgcc tgccacgtac accccgagcc ccaaaccac gccgtcgacg 360  
 tacactcca cccggacgcc cccaagccg acgccacca catacactcc cggccctacg 420  
 cccacaaaac ccacaccta ac 442

<210> 31722  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-E12  
  
 <400> 31722  
  
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 ctgcatgccc gtccaagaag accaccgtcg ccagggtccg gcgccgcacg gcgacgtgca 180  
 gggccagcag cggcgggtggc ggtggccgcg gcggcgaaaa tgatggcctc ctttggctgc 240  
 cccggcggga cgtgatgctc aacggcctgt ccagtgtgc cgccgggctc gcctggtacc 300  
 cgagcgtcgc gtccggcgcg gatgctgtgt gcaccattgc cgtacaggtg tacgagaaga 360  
 ccgtgcagtg cacacaccct ggcgggcagc ttccgtgccc tctggtgt 408

<210> 31723  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-057-Q1-K1-B4

<400> 31723

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acgatcatgt gcagaagcgc catgaggaga agggctgcct atatgcatgc ctgttcaactg 180  
cgtgctgctg cttctgctgc ttcgagacct gtgagtgtgt cctcgaggcc atctgctgct 240  
gctgctagtt ctgcttggag ggcattggcg tccatcatcg tggagatgtg gccatgctggg 300  
acaccaccg ncgaataaaa tgctgtactt atatgcacgc acgttagaaa tgcattagtgt 360  
tctggttgat gtgatnctgt gtgtgtg 387

<210> 31724

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B5

<400> 31724

caaacacttg ctatgcccgc tcctcgccgc gcactgctca gcacgccgtg cccgtgaggg 60  
catggacgcg agcgcggcca ccgccaggcg caagcgcaag cgccccgacg ccgacaacac 120  
cggcgacgcc accgcccgcg ccgcccgcgc cccggccgcc gtgcgacgagg cctacgacgc 180  
cgaggtcgag gagttctacg ccattctgcg gcgcattccg gacgcctccc gccggctgtg 240  
cggcgccggc gcccgggccc ccccgcgggc gccggcgtgg cggcccagct tctcctggga 300  
ggacttcgcg accccggccc ctggcgcgcc ggcgcctgag acctcgacgc ccggcgccgt 360  
gcatgagccg gcgcagccgc ggtccgacga gcctgtagcc gtcgtccgcg c 411

<210> 31725

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B8

<400> 31725

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aatgactcac catacaaata catgccctat ccacttccga tagtacaata cgtccttacc 120  
ctggaggaca ctcgtaacgc ctaattataa t 151

<210> 31726

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-B9

<400> 31726

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gagaaagctt ttattctcaa agcgttgata aaaagccgag cgaaaaccac gtgcacacgg 120  
cggagtcaca gaagcctgac gaaactttta aagctcctgt gtttgatatg tcagaattag 180  
aaaatctttt ctcagctgca ctgccaaagt cagattcaag gcgttcagat aagtcaggca 240  
gtcgtgcatc tgggtcgaaa ccagagaaaa ttcattcttat tgatcttcgc cgggctaaca 300  
attgtggaat catgcttacc aaagtcaaaa tgccactgcc tgacctaatg agtgcaattc 360  
tggctctgga tgatactgnt ctggatgctg accaggtgga gaaccttatt aagttcactc 420  
caactaaaga tgaaattgaa c 441

<210> 31727

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C11

<400> 31727

taaaaaaaaa aaaaaaaaaa aaaaaaaagt taaagattaa aaaaaaaaaa tataaaaaaa 60  
aagaaaattg taaattttta aatgctacta aatatataat tatatattct atcctattat 120  
ttaatttttt tt 132

<210> 31728

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C12

<400> 31728

gtccccagtgg gtcaaggcta tggtttgact gaaacctgtg ctggagcagc tttcactgaa 60  
tgggatgaca caagtgtggg tcgtgttggg ccaccacttc cttgctgcta tgtgaagctt 120  
gtttcatggg aagaagggtg ttacaagatt tctgattatc cgatgccgag aggagagggtc 180  
gtggttggcg gacacagtat aacaaaaggc tatttcagca atgaagcaaa gacgaatgaa 240  
gtatacaagg ttgacgagag gggatatacg tcggttctaca ctggtgatat tggccagttc 300  
catcctgacg ggtgccttga gattattgac aggaaaaaag atatagtaaa gcttcagcac 360  
ggagaatatg tgtctcttgg caagggtgaa tcggctctag caacaagtag ttatgtggag 420  
agcatcatgg tctacgc 437

<210> 31729

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C3

<400> 31729

tctcacataa ccgtagtcac tctatagcta ttactttcaa caaaccccaa cttccttttag 60  
ggactgattc attatataaa aggctgacgc attctctgcc ctccgatcct ataattcatg 120  
ataacttgac cgatcacact gacttcatac ctataactca tcattcaaatt tactgcctta 180  
tcaactttca atggtataat atagccctac catattat 218

<210> 31730

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C7

<400> 31730

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tatcaagctg attgattttg ggagtacaac ttctgagagc caagaccaca attatgtggg 120  
gtcgacaaga cattatcgtg caccagaagt tacccttggg cttgggtgga actatccatg 180

cgacttgtgg agtgtggggtt gcatttttagt tgagctttgt tcgggggaag ctctctttca 240  
aacacatgaa aacttggagc atttggctat gatggagaag gtcttagggc ctctcccaaa 300  
gcatatgatt gtcagagctg atcggcgtgc tgaaaagtac ttcaagcgcg gagtaagggtt 360  
ggacttgcca gagggagcgg cctcacgaga gagcatgaag gcagtctgga aaatgcctcg 420  
tctgcagaac ctttgtgatt gcacatgtga 450

<210> 31731  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C8

<400> 31731

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actccaccac ggcgcagctg ctggctcgccg cctgggaacc ggcggttaag cctagcaagc 120  
tgagctcgca cctcacgctg ccgtcgatcg tacatgcgcg gaccggcccc gctcctcgcg 180  
tccacctagg aggcgttagca ggcgcctaag gggatcgtga ccccgcatga ttgccccacc 240  
acggcggacc cgatctccaa gtgatgcaca accggcctga tccccatggc gcacttgtac 300  
aagttttaca ccatcacata gacctacacc accgagcacg tgctatagat gatcaccgga 360  
gg 362

<210> 31732  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C9

<400> 31732

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aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaataa 180  
tttaaaaaat aaaaatattt taatttaaaa aatttaaaaa ataaatattt ttttttaatt 240  
taaaaaaatt taaaaaattag tgggttattt taaaaa 276

<210> 31733  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-D1  
  
 <400> 31733  
  
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 aggacaacct gatcagggttc agcattggag tggaagattt tgaggacctt aagaatgata 120  
 ttggtcaagc cctcgagaag atataagctc caatccattt gcattaataa agttatgaag 180  
 tgatggttgt ctggatcttg tagagatttg tgatgatata tgagctgttg actgcgaata 240  
 agttctcttg tgcttatttt attctttgaa ttcaataagc tgtggggttg tgt 293

<210> 31734  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-057-Q1-K1-D12  
  
 <400> 31734  
  
 atgcgaaaaa aaaaaaaaaa ataaaaaaaa agattaaaaa attaaaaata acataaaaaa 60  
 aaaaaggaaa aagtgataaa ttaaaaagtt ataataaaaa ataaaaataa ataataaata 120  
 ataataaaat tattaatatca tttatattta tttttttctt attaatattt ataaataactt 180  
 atcttatttt taaaaaatat tttttataat tttttcatat tattctttta tattactaat 240  
 ttttttataa tatactttta ttttattcta taataatcctt atactttttt ttttttaatt 300  
 ttactaatat tttttttatt tatttaattt tttatttttt aataatttat ctcatattcc 360  
 ttctttttta ttataattat tttttttttt tt 392

<210> 31735  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-057-Q1-K1-D3



<400> 31735

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gagctgaaga ggaggaggag gaggaggaga agcagcagcg cagccggagg agggagagcg 120

aagatgcgcc gcgtcgcgct gttgctcgtc gccgccgtgt gcgcgctggc ggcgccggct 180

gccgcggtcg tctactgacgg tcttctcccg aacggcaact tcgaggatgg cccgcccaag 240

tcggcgctgg tgaacggcac ggtggtgtcg ggcgcccacg ccatcccgcg gtgggagacg 300

tccggcttcg tggagtacat cgagtcggng cacaagcagg gggacatgct gctggtggtg 360

ccgcaaggcg cgcacgcggt gcggctgggc aacgaggcg 399

<210> 31736

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-D6

<400> 31736

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gacaaaacac aaaaggaaag acacataaat caaaaaataa ggcctactct tttaatatgct 120

ccactcttct ttcccccttac ttcacatata ctagattttc tatcacctcc cttaaattcta 180

ttcaactgct cgagctttaa caacttccaa attttgaact ccttgcccat tcctacctta 240

<210> 31737

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B3

<400> 31737

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accgtggcgc tcgccgcgga ggctccggct ccggccccca ccagcggctc ctccgccgtc 120

gcgcccgcgc tcggcgccgc cctcggcgcc gccgtcgctt ctttcttcgc ctactacatt 180

cagtgagccg gccgggcgcc cggaggccga cgaagagacg aatgggagag agtgagacat 240

ggctgcgcgc ataccgatgc gtgggcatgt ttctgattcg acacaccttt tgtcctcttt 300

aatctttgtt cctctgtctc cttaacttaa cgaattgatg catgccgctg atgtttcttcc 360  
cctgagagag ggattaacac ttgtatcatt tcacccgttg gcatttggtt gaatccattc 420  
aaca 425

<210> 31738  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-057-Q1-K1-D7  
<400> 31738

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agtgttaa ac atcgctat tt ggtcaatctc cgtgggtatt gcaactcccc ttcacaaaa 120  
cttttgata atgattatct tcaagggtga agtctggatg aagtgttca tga aaaatct 180  
gaacagttgg attgggatgc acgtattaac attatacttg gagctgcaaa aggcttgtct 240  
tacttgcac atgactgttc gcctcgaata atacatcgtg atattaagtc gagcaacac 300  
ttgcttgatg gcagtttcga ggcccgtgta tcagactttg gacttgcaaa gcttttagag 360  
gatgaagaat cacatattac tacaatagtt gcaggaacat ttggctacct tgcaccagag 420  
tatatgcaat ttggca 436

<210> 31739  
<211> 51  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-057-Q1-K1-D8  
<400> 31739

tcccggtcga ggccgcgtac gccacgcgt tcggttctag atcgcgagct t 51

<210> 31740  
<211> 304  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-057-Q1-K1-E1  
<400> 31740

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gcgagcgagc tagcagagcg gcggcaggca cctccctcct caaggaacat ggcccgcacg 120  
cagcagttgg cagtagtggc gaccgccgtg gtggccttgg tgctgctggc ggcggcgacc 180  
tcggaggcgg ccatcagctg cgggcagggt gcgtcggcca tcgcgccctg catctcctac 240  
gcgcgcggcc agggctcggg gccctccgcc ggctgctgca gcggcgtcag gagcctcaac 300  
aacg 304

<210> 31741

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E11

<400> 31741

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gcgcctgcgc cacctccatc cccctcgtct cggcgccctc tgcattgccc tccaagaaga 120  
ccaccgtcgc caggttccgg cgcgcacgg cgacgtgcag ggccagcagc ggcggtggcg 180  
gtggccgggg cggcgaaaat gatggcctcc tttggctgcc cggcggggac gtgatgctca 240  
acggcctgtc cagtgtcgcc gccgggctcg cctgggtacc gggcgctcgc tccggcgcg 300  
atgcggtgtg caccagggcc gacaaggta acgagaagac cgtgcagtgc acggacccgg 360  
ccgggcagct tccgtgccct ctggtgtcgc cgac 394

<210> 31742

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-F3

<400> 31742

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gatcttctta aattattcta tcttccacag ctgctgcaac acctgatatg tttgtttgtg 120  
ttgttattaa ttattaagga tagctagctc acctttatta tttttaataa taattcttat 180  
ctgtacttaa ctatatcaat catacttatt tatacactta tatttatttg ttttaccgta 240

acttgaatgc ttataaaatg taatttcatt gtcttctttt t 281

<210> 31743  
<211> 245  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-056-Q1-K1-F8

<400> 31743

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ggcccatcct ggcttcngcc ganttatctt atctatctat agtatcngt taccggtcgc 120  
ttctgtcacc gtgttagtgt ccgttctacc tttggattag gtgttggtac ccctgttggt 180  
ccctttgggt gctcccgtca tgaaacgaga cgagagaaga atgagcaagg tttttgttcg 240  
cagct 245

<210> 31744  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G1

<400> 31744

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ctatccgccg ccagcccaca tacatacgaa aactaacag agagctagcc ccctcagat 120  
gctgcttctc caacacacac ctccctaaag tattctatca accaaagccg ctgctacacc 180  
tgatatgttt gtttggggtg ttattaatta ggacggacta gctagctgat ctatattatc 240  
gtacacaata atgctacgct gtacctatct ataacaagca cacaaat 287

<210> 31745  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G12

<400> 31745

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gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg tcgccacctg gtacgacgtg 120  
 ccccggtgtgg agcgccacgt cgcgctccct ggccttatcc ggacgctcaa gatgtgcggc 180  
 acctacgggg ccaccttcgc caccatcggg ggcctctaca tcggcgctga gcagctcgtg 240  
 cagagccagc gcaagaagcg cgacttcgtc aacggggccg tcggcgcggt cgttgccgga 300  
 gcctctgtct gcggctacag aggaaagagt attcagtcag cctcatcgg aggtcctgt 360  
 ctggctttca catctgctgt gctggacatt ggcggcaata 400

<210> 31746

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G4

<400> 31746

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 gttcgcccta gctgacgtct tcggcgctc caacttcaac gacgagcgct tccaagatag 120  
 cggctgcgtt ttccggagtt actaagggg ctatctcacc gccgaccact c 171

<210> 31747

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-G8

<400> 31747

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 acatactttg cttatatctg gagggataga agctagtgac tttgatgcct tcatatgcaa 180  
 cagtggcagn gatctttgtt atccatcttc aagctctgag gacatgcttt accctgctga 240  
 gctcccatc atgattgatc ttgatatac t 271

<210> 31748

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G9

<400> 31748

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gttccttttcg ccgctgccga cgttctaccg cgtgtaccgc aagaagtcga cggagggggt 120  
ccagtgcacc ccgtacgtgg tgacgctggt cagctgcatg ctgtggatct tctacgcgct 180  
gctcaagtcc ggcgccgagc tgctgggtgac catcaacggc gtcgggtgcg tgatcgaggg 240  
ggcgtacctg gccgcgtacc tgggtgtacgc gcccaaggcc gccagggcgc tcacggccaa 300  
gatgctgctg gggctcaacg tcggcgtctt tggactcgcc gcgctcgcca ccatgggtgg 360  
ctccagcgcc ggccctccgcg tgcgcgtgct cggatggatc tgcgtcagcg tcg 413

<210> 31749

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-H12

<400> 31749

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aaccttttcc ctcttctatt atgtctccta aactaaaatc cctgacccca aactttttaa 180  
ccctatactt ttgaaaaacc tacggatacc ccaacttaat ctctttttcc cacatacccc 240  
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<210> 31750

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A1

<400> 31750

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ggccttcgcc ggcaaggccg tgaacgtgcc gtcgtcgtcc gccttcggcg aggcccgcg 180  
gacgatgcgc aagacggcgg cgaaggccaa gccggcggcg gcgtccggga gcccggtgta 240  
cgcccccgac cgcgtgctgt acctgggccc actgtccggc gagccgccga gctacctgac 300  
gggcgagttc ccgggcgact acggctggga caccgcgggg ctgtcggcgg acccgagac 360  
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<210> 31751

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A11

<400> 31751

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caccctcacc gtggggggat gggtagtggg tttagtggga gccgcattaa ggatccggaa 120  
tggtcggcaa gatcacgcgc aactaattaa gctagctatc gatcgatatc cattcatgta 180  
ttagctgttg cttcctgctt tgtactccgc cgatctgtcc atctctacat gttttcgtct 240  
tcacacaaca acctctgcta cgactacgta tatatgcatg ctactagctg attgatttta 300  
acgaccaggc cgaccccgaa agctagcttg gaccaaaaaa aaaaaaata tctaattg 358

<210> 31752

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A3

<400> 31752

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ccgaggcgcg ggagatggcg ggcgagtcgc tgtgcgcctt .ggtgaccgtg ccccgcaacc 120  
ggaagcgggtt cgtccaggag gaccgcgacg tggcgcgggt gctgcagctg ctgggccccg 180  
acgaggagaa ggagaagccc gcgccggcga ggcggttcct gctgtcgacg gtggcgcacc 240  
tcacggacag cagctccggc cggaggaaga tcatgtcctc ggagcacgtc aggtaataca 300  
gtacgatacg aacaacacgc acacgtagcc aatcatcacg tgctcatcaa ttatcgctgc 360

agttctcagt tntttttttt ggaaaaaac aaatgcttgt ggtctcgtgg caggaa 416

<210> 31753

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A4

<400> 31753

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gtaaatgtaa aaattaataa aataataaaa aattaactct aaaatattaa aaa 113

<210> 31754

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A5

<400> 31754

acgcgtccgt gcctcgacat tcttaaggac aaatggagtc ccgctcttca gatacgtaca 60

gttctgcgca ggtaattgct tattttatcg tctgtttggc taaatagctg tgatgggtggg 120

tggtatatga tgatgtactc tgcattgtat caatactgca tccaattttt ggcttgcata 180

tggttctagc atatcagtgt gctaccacac tgccccctg acaatatttg gtcttcagca 240

ttcaggcact tctgagtgcc ccaaattccag atgacacctc ctcagacaac attgcgaaac 300

actggaaatc aaatgaagct gaagcttttg agacaggtag ttgtagttgc agtaaacaca 360

gttatgaaca tagtgttggt atggtttctg cttcacgtct atattacaga tgtcctaaca 420

tggcagtc 428

<210> 31755

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A6

<400> 31755



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 tccagcgagg aggacggcgc cacgtggggc agcctgtgga acctcgacgg cgccggggag 180  
 gtgtgcacgc tgtggtagag atcgattcgc taacctgccg ctgccggccg tactgcagcg 240  
 gcaagccgcg cgcattgccg tctgcttgag gggaggggaa agccgaacag gtgatcgctg 300  
 tcgtcgtcgt cgtgtggtgc tgggtggataa ggacggaacg gaacaactgc taccgcgtac 360  
 gttcactttg cagccgcacg actgcatcag cagctatacc gcgcgccgnc tgagccgagg 420  
 acacgtgtgt cgttaagctc cgggtgaaccg aactttt 457

<210> 31756  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-056-Q1-K1-F10  
 <400> 31756

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 gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 180  
 gaagtgcagg atcttgaggc tgggtggtatt caggttatcc aaatcgacga ggctgcactg 240  
 agagaagggc tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac 300  
 tccttcagaa ttaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc 360  
 tactccaact tcaacgacat catccactcg atcatcgaca tgga 404

<210> 31757  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-057-Q1-K1-A7  
 <400> 31757

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 taccaacaag ctttggattt gatactgctt gcaagatata ctccgaaatg attggcaatg 120

ttatgactga tgcaagatcc acaggaaaat actaccactt tgtgaggctt atgggtcgtg 180  
ctgcttctca cattacattg gaatgcgctt tgcaaacaca cccaatgct gcactcattg 240  
gggaagaggt tgctgcgaag aaagaaaccc ttaagaatgt cacanactac attactgata 300  
tcactcgcaa gcgtgcagat cttgggttaca actatgggtg tatccttata ccanaaagcc 360  
tgattgattt cattccaaaa gttcaaaaac tcacgcgga aatgaatgaa attttagcac 420  
atgatgttgt 430

<210> 31758

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A9

<400> 31758

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gcgtccatgt cctccgggtt cgacctgtcg gggctgttcg agagcgagca gaagaccgcg 120  
accgtgttca cgccccgcgc gccggcgccc accgtggtgg agaagctgga gtccgtggcg 180  
cgcgccctag gattcgaggt caccaggggg aaaggctgga aggtgaggat ggaggccaag 240  
gccgagggca cgaacggacg gctcgcggcc accgccgagg tgctcgaggt ggccgtggac 300  
gtgaccgtgg tcgagttcgt gcacgacgcc ggggacgcgc tggactttaa caagttctgc 360  
gccgtcgacg tccgcccggg gtcacggag atcgtctggg cgtggcaggg cgacagcccc 420

<210> 31759

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-C1

<400> 31759

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tgttctccaa tgactcatct taacacacct cccttatatt ttaacaaaca tgctcccca 120  
acccaaattc acacctaaca atgggttttc accttatcaa tctctttaaa tacattcctc 180

atagccaaac atatttggtt tccactcttt tcaatttaca ctaaccataa aattttattc 240  
 taaatt 246

<210> 31760  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-056-Q1-K1-C2  
 <400> 31760

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 gttgtattaa ctaataatcg cagaagggtt tcttacacag cgctcgaaat acaagcaaca 120  
 tggataacat ataattgattt caactcaaat caaataacac ttaccataaa gtcttatgct 180  
 aataggaacg tgatttgaca attattccat tataatctaga gagtaaattgc ttggtaacat 240  
 gaaaatagaa caacttttaa atcattattt ctatgaccat ttcatttaac ttcattagtaa 300  
 aaattaggc 309

<210> 31761  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-056-Q1-K1-C4  
 <400> 31761

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 aaccggctca gggggcgctt gcctccggac ctcgccggc tccggatgct cagccgcgcg 120  
 ctgctggcgc gcaaccggct gtcgggcccc atccggcggt cgggtggcgta gctgccccgg 180  
 ctgcccgaac tcgacctctc cgagaaccag ctgacgggag cgatccccga gggctctgggt 240  
 gccggccccg ggaatagcgg cgtgctcacg acgctgtacc tcggccggaa ccggctgtcg 300  
 ggcggcgctc cggcgagcct gcttcggagc ggcgggctcg ggatgctcaa cctcagccgg 360  
 aacgcgctag ggcggggcgg ccccgacgag ttcacgccga gctgctactt catgct 416

<210> 31762  
 <211> 235  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-056-Q1-K1-C7  
 <400> 31762  
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 tatttttaciaa tgggtgcatga gttgcataaa ctgcatgtac aagaaaagac aatcattcgc 120  
 aactttttatt aactaaaaat cacagaacgg ctagctccca atctctataa ataaaatcaa 180  
 catggataac ataatatgag ttcaacttta aactaaaaac attaaccata aattt 235

<210> 31763  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D1  
 <400> 31763  
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 tatattttatc aatgttccat gaattacata aaacttcatt taataaaaaat agacaatcat 120  
 tcacaacttt tattaactaa tttatatcag aagttctttt tctaatatct ctagatataa 180  
 aatcatcatg gttaaaatat tttgttttca atttaaaac 219

<210> 31764  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-056-Q1-K1-D11  
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 cctcgtcgta tcctttatat ggaaatccgg ggccaggggg tcattccctt gactcgtact 180  
 gatgagaagt tttttactcc acgagaaatt gaacaaaaag ctgccgaatt ggcctatttc 240  
 ttgcgtgtac caattgaagt attttgagta ccaattgcaa ttttttgcaa ttgtaagggg 300  
 attttcgagt atttatctaa agtaaaggaa ggaacaaacg aggataagag aaaattgctt 360

cgaatttggtt ttgtccaaat gagatatatg gcatacta

398

<210> 31765

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-D12

<400> 31765

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gggcccggcc acggaacgcg ccgncgccgn cgcgctcatc acatcacaga ggcctcgccg 120

tcgtctcgga tattccccgc cgtaggacca gtttccctcc agctgccgga gaccatgtcg 180

ggcggcctgg acatgtccct ggacgacctc atcaagcagt ccaagtcccg acccaaggac 240

agcccggcgt ccttgctggg gcctgcccgc cgcgcgccac aaccccggcg cgccgtgccc 300

taccacccgg ccgctcccaa ggcccgtgcc gncgccgact cgccctacgg ggtctactcc 360

aagcacatcg ccgcgatagc gccgcccccg ctggccaaag caaggctcgt tgagacggga 420

<210> 31766

<211> 384

<212> DNA

<213> Zea mays

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<400> 31766

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gctgatccag gaaatgcatt tcttgtgcca tcaccttact acccgggttg ggatagggac 120

ataaaatggc gaactggtgt tgagttgata cctgttcctt gtcgtagtac tgataacttt 180

aatgtcagtg tcaactgctt tgaaatagct tacaacagg caaaaaagcg aggaataaga 240

gttcgtgggg ttctcatatc taacccttcg aaccacagg gaggcattgt gccaaaagaa 300

atactgcatg accttctaca gtttctgtgca gagaagaaca tacacttaat ttctgatgaa 360

atatttgctg gttcaacata tgga 384

<210> 31767

<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D5

<400> 31767

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caaccagtgc cgcaaagga ccccgctcgc gggctgccag gacctggagt ggagtgagtg 180  
agccggtggc ggccttggtt tctctgctct gctctccctc gccggcgtgc ttcacgatcg 240  
tgggtgtgtg aaggaactaa ggacgacggt gcctggttta ggagtttagc tatagacgaa 300  
agcacgtacg gccgcgtgcc tggcttagct acgcggcctg gttgatcttg agcagttaag 360  
cgtgtacgaa acgacagctg tgtacgtgtg tactgtctga tggagtgtga gaagtacttg 420  
gtgtatttgg tat 433

<210> 31768  
<211> 117  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D6

<400> 31768

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tgtagcatc ataatttga gtactacaca atactaatat agtacatact ttttgtt 117

<210> 31769  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-056-Q1-K1-D8

<400> 31769

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cctcgaaggg aaagcaatgt cagagtttga agaggcaatg tcacaaattg ttggattgca 180

ggagctaaaa atgcaattgc gccgatgggc acgaggaatg ttttttgatg agaagcgacg 240  
 ggctatgggc ttgggggattg ctaaaaggag agctcccat atggcatntc ttggcaatcc 300  
 aggaactggc aaaactatgg ttgctcgaat tcttggaag ctctacaca tggttggaat 360  
 tcttcctact gacaaagtaa ctgaagtca gcgaactgat cttgtggaga atttgtgggg 420  
 catactgg 428

<210> 31770  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D9

<400> 31770

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 agaacctcga gttcaacttc cgctggaccc gccgcagcct cgccgtcgtc ggctcttctg 180  
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 aggatgcagg tcggccatac aggaagttcc tgtaagcggc gtccagggtc gcagaatacg 300  
 tcgattcctc gaccggggct tcgaagaggg gagtttctat tcagtttgta tcggtattgt 360  
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<210> 31771  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E10

<400> 31771

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 gccttcgtgc gtgcagggtc gctgctgctg ctcgctcctg cgccttctcc cccgcgacga 180  
 cgcgtctctg tccccctccg cctgcgcgca ccgcctgaag ccttggtctt ggcggtgccca 240  
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ctctaccett cctcctcca tttctacatc tccccgttgc tgctctgctc ctgctgccac 360  
aagagtattc gccttcaatc gttgctcgcg cctgtcattt cgtgccgcac gccga 415

<210> 31772  
<211> 381  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-056-Q1-K1-E11

<400> 31772

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gctcacctcg cgacctgcag gcgctgttga gcgtgaagca ggcgctaggg aaccgggcaa 180  
cgctgtcgac gtggacccca gcgtcgcccg actgctgctc gtgggaccac ctccggtgta 240  
acgacgccgg acgcgtgaac aacgtgttca tcgacggcgc ggacgacgtg cgcggggcaaa 300  
tcccgctcggc ggtggggcggg ctgacggagc tcattgtcgt gaccctgttc cggctggcgg 360  
ngctgacggg ccccatcccg g 381

<210> 31773  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E12

<400> 31773

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aagtccagac tcatagagtt gcagagaact caagaaattg ttatgggttca acatgttgaa 180  
gaatgccaag tggctgaaga taagatcaga actacaaggg agaattcaga agttactaga 240  
agattctacc tttgctgaaa atcacaagca agagttgctt caaaagattt tgaagctaga 300  
atcagataat caggaactcc taggacaaat gcagtccatt atggaagaga aatcaaataa 360  
tgctgaatct ctgcatggag agataactaa gcgtg 395



<210> 31774  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-056-Q1-K1-E4

<400> 31774

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ttctgctagg aactctagtg tattctgtgc cagtttgagg aaagcattat aaatgacctt 180
ttgcaacttc cagattcaac attttaccag atggcttaaa tgtgcaatgg gaaagagagc 240
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aaagagagca tcaacacaaa cgtttgaga atggaccac agaaccatct atatacctgg 360
ctgggaaaaa cagnagtaaa cttgcttagt agaatatgta gtggcgtgga ataattttt 419
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<210> 31775  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E6

<400> 31775

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cttctaaacc agaggctcca tctgtgtgcc gccttgtttt actagaaatc cttttttatt 180
ttatcctttt tcacttttcc tgccatggtt ttttccttat cctgccattg taaaacaat 240
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gtttgcttc 309
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<210> 31776  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B6

<400> 31776

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tgcacctgtt cagttattat gttttgatat ggtttctcaa tttcttagga taactctgta 180  
gtct 184

<210> 31777

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-F1

<400> 31777

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ggaaggacct ctatggtaac attgtgctca gtggtgggtc gactatgttc ccgggtatcg 180  
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ttgcaccgcc tgagaggaag tacagtgtct ggataggagg gtcgatacta gcctcgctca 300  
gcactttcca acagatgtgg atatcgaagg aggagtacga cgagtctggc ccggcaattg 360  
ttcaccggaa gtgc 374

<210> 31778

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F4

<400> 31778

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ctggccgtgc tcctggcggc gaccgtggtg gctcccccg ccgcggtgcg cgcggcgatg 180  
tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca gatgggcggg 240

gccatgccgc cccagccgtg ctgcgggcggc atccgcagcc tgctgcagca ggccaacaac 300  
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 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F6

<400> 31779

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 gcaagtgcgg caagaagtac cctgacctgg aggagacgag caccgtcgcg caggccaccg 180  
 acgtcctcgg cgtggccctc gagaagaagg ccgtgcccta gttcgtccat gccgtggcag 240  
 agttcggcga ggccgctcac tgctgcagct gccgtggcag ctgcaagtgc gaccctgca 300  
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<210> 31780  
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<223> Clone ID: LIB3068-055-Q1-K1-F7

<400> 31780

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 gcggcggagg gaggagcacg cgcggagatc gcgttcccca gcacgggtgca tggagcggag 180  
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<210> 31781  
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<223> Clone ID: LIB3068-055-Q1-K1-F9

<400> 31781

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tgggggttttc actaatccag atctttttcc cactgggcaa gatctctgtg atgatatatg 120

gtggattggc atctcttata ttctgtggct atatcatcta tgacacagac aatatcatca 180

agcgccacac atacgatcaa tacatatggg cagctgtttc actctacctc gacgtcatca 240

acttgttcct gtctctgctg cagctgctga gggcagccga tagctgagct cattaatgga 300

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ttg 363

<210> 31782

<211> 426

<212> DNA

<213> Zea mays

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<400> 31782

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accgcagcgc ccaccgcggg ggctcagaag atcgtctccc tcttcagcaa gaagcctgcc 180

cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240

aagtggtagc gtcttgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300

gtaccggagt acctcaccgg agaggtccct ggagactatg gctacgacct ttttggcctg 360

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gccatg 426

<210> 31783

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G4

<400> 31783

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gacgcgccg cttccggctc gctcgaccg ccatgggtggc cgcgcaagcc tctggccgc 180  
ggcgcgctct agcccaggcc accttcgcgc ccggggttat ggcgcgcgtc cctacgcta 240  
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tcgcccagct cagcggttc cctgctaca aagttcgtcg tctgtccgta cgtcgctgc 360  
tgcttatatc ctagccaggt caacctgtc atgggtgctgg agctctcggg gatccggcat 420  
gtcgtctact tgc 433

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<211> 150  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G6

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gaaaaaaaa aaaaaaaaa aaaaaaaaa taaaatatat ataaaaaaaa aataaaaaaa 120  
aataaaataa aaataaaaaa aaataaacaa 150

<210> 31785  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G7

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gccaacagtt ttctcgcca cactgagctg cgtgtgcatg taccgccgc cattaccctt 180  
gctacgagag gccggttaca gagccttaga cttcaactgg ctcttcttga tcgtgaattt 240  
gacgatttag attatgacac tctgagagca ttggatgctg acaatagccc acatgctcca 300  
tctatgagtg aagaagaaat aaattctctt cctgtcttca aatataaagt tcaggcacia 360  
cagaagcacc ccctgcccg aaaaagtgat gggccatctc agctatcggg ttcttcaact 420

gggtcccga atgatgaaaa gcatggaggt ttaaaag 457

<210> 31786  
<211> 52  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H1

<400> 31786

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<210> 31787  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H12

<400> 31787

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taccactatt acatttctaa aaccctctt tatacccaac ttactcatat tacatcacat 180

ttcctctcct tctacttact tacaacacat acaatctctc ttc 223

<210> 31788  
<211> 451  
<212> DNA  
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<223> Clone ID: LIB3068-055-Q1-K1-H8

<400> 31788

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gtcagcattg ggccacacat ggtcgccatt attacacacg ctatgactat gagaatgtcg 180

atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca tcaatttctg 240

atgttaacaa gttgatcaag gagatccggt ctgatgtttc tgaagtagtt gcagctgacg 300

agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc atccgatacc 360

tcttcggaga tggttcacga ctggtgttcc gtctatccgg aaccgggtct ggtggtgcca 420  
ccatccgtgt ctacatcgag caatacgaga a 451

<210> 31789  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-056-Q1-K1-A12

<400> 31789

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gacttcgtgt ccgggaagtt cctcgtatgg gaaacttagc caccgcgcgc tcagctagcg 180  
cgcgcccttcg tcacaactcc tatactttca taaatatata tatccacgta ctacctatat 240  
atacctaccg atatgtgaat gcgaggagta ctattacctg catgttttca gcagtatgca 300  
gctacgtaca tatatatgta ccggtatgcc tgacgacgtg aatgtaataa gcaataacat 360  
tttctaccgc tttnttttta tttctttcta acgtcgagct tctatatgta gcaacaacat 420  
tttctacgta catatatata t 441

<210> 31790  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-A5

<400> 31790

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actctaaaag ggaaccaatc ttacctcccc tttcttacia ctaaataaat cttttataacc 120  
cttacctaaa tccaattcac tttctcttca ttttaactctt atttaataat aaaacactct 180  
tctaaccocat attaatctca taaaaacaaa acttactatc tccatctact ctaataaaaa 240  
aatcccata accaatctgc ctatctaac 269

<210> 31791

<211> 222  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-056-Q1-K1-B1  
  
 <400> 31791  
  
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 ttgcccccta cataaaattc ctttctttat ttccccctaa ttccaaattt ctttcccttt 180  
 tttttacaac ccttaacctc taaatccctc gctttaccca ac 222

<210> 31792  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-056-Q1-K1-B11  
  
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 aagagtgtctg aaaacttagg cgagcttctg atgggtgatc aaatagataa ttctccgtac 180  
 cgtttccgtg taaatgtcaa cgaatctctg tatctgtgta ctacaacccc acttgacgag 240  
 gctaattgtga agctcctcaa gcagcgtagc catgatctat accagggtgaa catgattctt 300  
 gacaatcttc ctgtgaggag gttcacagag cagaatggaa taaccatcca gtggacaagc 360  
 tatccagttg gttatattcc agaaggcact tctgatgtct acatcatcaa tca 413

<210> 31793  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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ccgttctgta tatgaaaaga aacaggtgct aggttttctt 160

<210> 31794  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-055-Q1-K1-F2

<400> 31794

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caggccaccg cgccatgggc aacgctctgg cgggcaggcg gcgcgcggcc aaggtgatga 180  
cagtggacgg cgccacgttc cgctacaaga cccccgcggc gcggtgcgcg gcgctgcgcg 240  
gccacccggg ccaccagctc ctggagtcgg aggaggtgcg gcggctgggc gtgcgcgcgc 300  
gcccgctgga ccgcgacgcg ccgctcaagc ccgggaagct ctacttcctg gtgcagatcc 360  
cccgcggcgg cngcggcgac gacgaccgc gcgcgccgcg caagacgtgg tcgggcgcgc 420  
tgcgcgctgg cgcccgcgag cgcttgagg gcctgatgc 459

<210> 31795  
<211> 62  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ag 62

<210> 31796  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-056-Q1-K1-B5

<400> 31796

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agatgggtct ctcccttggg aagctgttca gccgcctctt cgccaagaag gagatgagga 180  
ttctcatggt cgggctcgat gccgccggtg agaccaccat cctctacaag ctcaagctcg 240  
gcgagatcgt caccaccatc ccactatcgt gattcaatgt tgaaactgtt gagtataaga 300  
acattagctt cactgtttgg gatgttggtg gccaggacaa gatcaggccc ctgtggaggc 360  
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<210> 31797

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D12

<400> 31797

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agccgccgog cgctccctg tctcctcccc ggcgctgcc gcggctggag caggaggcgg 180  
cgtgccgttc tcgatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240  
tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccatatgg ccgtcacgcc 300  
tctcgacctc gtcaagtga atatgcagat tgaccagcg aaatacaaga gtatctcatc 360  
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<210> 31798

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D5

<400> 31798

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tgctgaagct ggtgaagttc ctattgctta cgtcgtgaagg tcctctgaga gttcttttgac 180  
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 ggtgaccttt gtggacagcg taccaaaatc tgcttcaggg aagatcttga gaagagaact 300  
 catctctaaa gtcagatcat ccaagctata gcaagccggc ttctgtgttc agaagctaga 360  
 acgacttcca atttgaaaat ttgtcagatt gagcgtaaag gtttacatgt tactgagcgg 420  
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 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-055-Q1-K1-D7

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 acatccgtcg catccgtgtg cggcgttgtt ggagccttct ctgtcgtca ggggcccggc 180  
 gaccaaggat gatggcccga ccgaccggt gaggaggttc gctgccgtga agaggagct 240  
 gcagacgatg gaggggaacg acgacgaggc caccggcagg gtacttgtct actcagtggc 300  
 gtcgtcggcg gtggttactg ccgacgacga cgaagggtgc aacagcagcc ggaagaagct 360  
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 caaccct 427

<210> 31800  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D8

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 aaaataaaaa aaaaaaaaaa aaaaaaaat attatggccc cctcttttta gttcccctaat 180

tttatttccc tttcttttca tttttttctt ttttttttat ttctcttcta ttttaatttcc 240  
 tttccctttt tttaaaaact ttttctttgt aaaacctttt tttttctcaa ttttaattcct 300  
 cttttaatat atctcttttt ccccatctct ttaattactt aaataccccc catctattcc 360  
 cttttccaaa atttttccat ccttaattcc ttttttttcc cc 402

<210> 31801  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D9

<400> 31801

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 cctacgagct cgccccctggc cacaggcagc agggcgcccc cgcatagccc aagcagccct 180  
 tgctgaccgt cccctccagc gcgtggtgct cctgccagcc ggcggggcgta gcaagcccc 240  
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 ttctgtgtt cgtgggcata tgcagagagg aggaataaat gccacgctcg atcccacctc 360  
 tttccaaatc tccgtggcta aattttgtgt ggcctagtgt gtgactt 407

<210> 31802  
 <211> 64  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E1

<400> 31802

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 aaga 64

<210> 31803  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E10

<400> 31803

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cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 180

cgccgcgcca tcgtccaggt gtcttacgcc atcggcggtgc ccgagcctct ctccgtgttc 240

gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

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gggcgcta 368

<210> 31804

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E12

<400> 31804

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tagaggagct cgagcgtgga gagaagggca ttggtgatgg gacagtgagc tatggaatgg 180

atgatgctga tgacatctac atgcggtcat ggactggtac catcattggc cctcacaata 240

ctgtacatga gggtcgcac caccagctga agttgttttg tgacaaagac tatccggaga 300

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gaatggttga tccaaaggaa agttggtttg ctagegaact ggcagcggga ctacacgatg 420

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<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E2

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<210> 31806

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E3

<400> 31806

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 acacatcgag taaaatctgt ttccatggcc aaatttaccg cacaagaagt tgctgccctt 180  
 caagaagggg ggaatgagcg tgctagagaa gtatttttca aggaatggga tcctcaacga 240  
 aatggatacc ctgacagcag taacgctgac aaattgagaa atttcattaa gcatgtgtat 300  
 gtggaacgta gatacacagg agaaaggagt actgataggc caccaagggc aaaggatgac 360  
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<210> 31807

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E4

<400> 31807

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<210> 31808  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-E5  
  
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 cgagcttttc tacctgaaat cacagttttc tctattggaa ccagacagga atggatgcat 300  
 cactcttgac aatatcagaa tggccttaac gagagaagct actgatgcaa tgaaagaatc 360  
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<210> 31809  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-E7  
  
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 gggaacgccg ccacgcaggc ggagttcccc agagcggatg aagggttcgc ctgctagggc 240  
 acggtctcct gctgcgaagt caagtgcgtc gcatagggac agggagaggt cgccttcgag 300  
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 caagggtgaga gaga 374

<210> 31810  
 <211> 476  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E8

<400> 31810

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ggcgggggac ggcgcctcct ccgagcacgg ccgcgaaccc acaggtcctc ttacgtctta 180  
caggaagcta gtgagccaag ggaagctcac gcatgatagt taccaggaaa atgtagcttc 240  
cgaattagac aaccttctta gtaggcttca acggtacgag atggaaatgg aggattatca 300  
tgacaagctg tacttctggg agaatagcag ggagaaagag cggcgcaggc ttcttgtcga 360  
agaagctgaa gataagcagc gtggtggtgt atggattgat gagagaaggg gatttcttga 420  
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<210> 31811

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E9

<400> 31811

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ggccgggtgc tgctgccatg tagcccagcg ctccccctc ggcttcaccg gcggcggcgg 120  
caacgacggt gaaaactaca tcgggtgcta gctccgacgg tgggtgcgtgc cctgttgacg 180  
atagggcacg cggggcgcgg gcagcttgta agcgttcgat cggccatgta gggcaactat 240  
acatctttgg caggtctcca tcctcctccg tgggagagaa gatggtaatg gagtgcgtgt 300  
gtatgtatgt gtatgccag gcgcgcgcgc ccgcggtctg ggcgagtcac agtagagatg 360  
caatatcatg tatccagtat ctttcttaca acacaaacag tgaagaaata ataagtaaag 420  
tgtgcattgt ggggtgc 436

<210> 31812

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F10



<400> 31812

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tacttaagt tactaaatt gaatcgactg tccacaactt ttacaactgg gaaaactcgt 180  
aaaaccactg aacttacatc aactttaaac gacatgcagc attatcccag tttgcgcaga 240  
tagcgaagat agccaaaagg gatcgcacct tatcaacatt tgcaac 286

<210> 31813

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D11

<400> 31813

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cgtgattgga gcccgccgcg cctcatggcg catcatctcc tccatcgagc agaaggagga 120  
gggccgaggc aatgaggacc gagtaacact catcaaggat tatcgtggca agattgagac 180  
tgagctgacc aagatctgtg atggcatcct caagctgctt gagaccatc ttgtgccgtc 240  
ttccactgcc cccgagtcca aggtcttcta tctcaagatg aagggtgatt actacagata 300  
cctcgctgag ttcaagactg gagctgagag aaaggacgct gctgagaaca cgatggtggc 360  
atacaaagct tgccaggaca ttgctctggc tgagcttgct ccaactcacc ctattaggct 420  
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<210> 31814

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A12

<400> 31814

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gtgaagtgca aggaagctga ggcgaaactg ttccagaaac tggccgatga tgccaggaag 180

gaggtacaca gctaccggca gatcgtccgc accaagaccc agaaactaga cgaggagtag 240  
gccacgaagg tggcaaagct gtgcttccag gagacggacg agaagaggag gaagaaagct 300  
gaagagctta aaacccttga gaacctccac tacgactacc acaagatgaa actgcggtatg 360  
cagaccgaaa tccaaggctt gtcgaaccg attgaaacca caaagaagat gtgggtatag 420  
gtcccttgta acaatttcat gttgctgctg cttaatgctt ccggtatag 469

<210> 31815  
<211> 69  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A4

<400> 31815

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aggaggagat 69

<210> 31816  
<211> 424  
<212> DN?  
<213>

<223> unsure at all n location  
<223> Clone ID: LIB3068-6

<400> 3181

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tcttggtctt gtcctattga aatataaaac tctgatacaa 180  
atcaccttta tctgcacgat caggttggcg cctatgcggt ttatatgtgg aggcatagaa 240  
gatttttttg gaattctagg gagagtttag aacatattgt gcgtgtggtt gtcctgaata 300  
tggtactgct ccactntttt tctgcttatt ttattttgcc ttcgtttcaa aaactttctt 360  
tgttctatct gcaacatttt ctttttcata gggtatgggc ctcctttcag ggggattgat 420  
aact 424

<210> 31817

<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A6

<400> 31817

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ttatttgctc caggaaaccc tggctctgaca caatccaaga attccatggt cttttcaaac 180  
gcattatcca gcccacatccg gcggagcctg cagccttacc acctagaaca ggacggagac 240  
acatggtact ttgtgaacgg cgcaagccgc gacatgaacc ccacggcttc gaacgattca 300  
tccatggaca tgcactcgga cagcccagtt catgactcct actgagcagc ttccttcacg 360  
gaaccagaag aacagcatt 379

<210> 31818  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A8

<400> 31818

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tcacatttta gcatatgggc tctcatgaag gccctctat taattggctg tgatgtcaga 180  
aacatgactt ctgaaacaat ggaaatactg agcaacaaag aagtaattca agtaaaccaa 240  
gacccctctt gagttcaagg aagaaaaatt ttaggacaag gaaaatatgg atgccgtgag 300  
gtgtgggctg gtcccttgct tgggaatcgt cttgttggtg ctctgtggaa ccgttggtca 360  
gatactgcta acgttacaat gaaactgccg gcagtaggcc ttgatgggta tgctggctat 420  
tctggtaggg atctgtggaa gcatgaaact ctatcgaaa at 462

<210> 31819  
<211> 476  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B10

<400> 31819

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cttactacac cccggagtac gaaaccaagg atactgatat cttggcagca ttccgagtaa 180  
ctcctcagct cggggttccg cctgaagaag caggagctgc agtagctgcg gaatcttcta 240  
ctggtacatg gacaactgtt tggactgatg gacttaccag tcttgatcgt taaaaagac 300  
gatgctatca catcgaacct gttcctgggg acccaaata atataatctg tatgtagctt 360  
atccattaga cctatttgaa gagggttctg gtactaacat ggttactttc atatggggta 420  
acgtatttgg tttcaaagcc ttacgcgctc tacgtttgga ggatctacga attccc 476

<210> 31820

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B5

<400> 31820

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ggtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 180  
taaa 184

<210> 31821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B6

<400> 31821

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atcgacctgg cgcgcaagtc cggcaagttc gacgaggaca gcctggcggt ccagtcgcgt 120  
ctgctggcca agtccggcat cggcgacgag tcgtacatgc cgcgctgcgt gttcgagccc 180

aacgccagct gcgccaccat gaaggagggc cgcgccgagg cgtccacggc catgttcgcg 240  
gcgctggacg agctgttcga caagtgccgc gtccggccca aggacgtggg cgtgctggtg 300  
gtcaactgca gcctcttcaa cccgacgccc tccctgtccg ccatgatcgt caaccactac 360  
aagatgcgcg gcaacatcct gagctacaac ctgggggggca tgggctgcag cgcgggcgtc 420  
atcgccatcg atctggcccc ggacatgc 448

<210> 31822  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B7

<400> 31822

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actccggagg aggtggaggc ggcggcgccg gtggcgccgg cgggtggaggc ggaggcggag 180  
tggctaaatg cactgtgat tgctcacacc atgatcattc accaccaagg caaccgttct 240  
tcccgtcacc gcagcttcca ccaccacaaa tctttcttcc tgcaagacca ccgctccctc 300  
cgtctggggc ggtcccatth tcgtcacc 328

<210> 31823  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C12

<400> 31823

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catttttgta tcccctgttg ggaattatth caaggaaggc ttatctccta ttaatttgat 180  
cgttgaggat aaatttcacc gtgccagccc tgggtggaact ggagggtgtga aaaccattgg 240  
aaactatgcc tcggtactga aagcacaaaa gattgcatag gggaaaggat attctgatgt 300  
cctttaattg gatgctgttc atgac 325

<210> 31824  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C2

<400> 31824

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gccggcggcc aaagcccggg ggccctagtg gccccggca gccgtcgtcg gcgcggacgg 180
catccgcgcg cctctggcgc gccctcggg gcgctgtgcc gcaacggtct gcgagctccc 240
catccgaccc gtcttgaaac acggaccaag gagtgtgacg tgcgtgctag tcgacgggtt 300
cagaaacctg agaagcgcaa ggaagctgac gagcgggagg cccttacggg cgcaccgggt 360
ggccgaccct 370
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<210> 31825  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C3

<400> 31825

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cctgcaccac cgcgagcggg gtcgcaactt ctgcctgttc atgccggcgc tggacctggc 180
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gtcgtcgatg cacgtgccgg tcgcgctccg gtcgctcagc tccaccccg tgcgcaacca 360
cttcattctg gttccggtc 379
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 <211> 134  
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 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C5

<400> 31826

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caccctccg gcaa 134

<210> 31827

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C6

<400> 31827

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gggcgagcgc ctgcgccacc tccatcccc tcgtctcggc gccttctgca tgcccttcca 120  
agaagaccac cgtcgccagg ttctgtgct ctacggcgac ttgcatggcc atcagcggcg 180  
gtggctgtgg ccgttgctgc gaaaatgatg gc 212

<210> 31828

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C7

<400> 31828

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gggacgcctt gttttgtgga tgcttagtgt ggtgacctgg tgggtggtggt ggtgggtggt 120  
cttggcacia gttacatgct ggggatagct ataggaggta cctgttgagg tgtgtaagac 180  
agtagctagc aaccgtatgc ctaggtttcc tgtttggatg cgtgacatgc cgactttcta 240  
gctgcttc 248

<210> 31829

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C9

<400> 31829

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cactgctacc ctactacgta ccctcctctt tgtgtgctgc catccgtccc cgtagacga 180  
tcgaggagag aataacgcag agctctctgc tcccggcctg tcttctgccg tcccggccgt 240  
ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt gtgcgggtat 300  
gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca aatatgcaag 360  
g 361

<210> 31830

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A10

<400> 31830

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tgatccagtg tggtttcag aaatgtttaa ggattggtag tgggtggatt tcttgtaa 180  
ttatctcaaa cctaaattcg ggttttatgc tatagaaaat agaaatactt catgatgatg 240  
aatcatcagg ttaagatcga tctaaaccaa tccattttat atatacatc gacatgccaa 300  
cgggttaaaca acttattaga aatgccagaa cagccattcg aaatgctaga aaatcggccg 360  
cgcttaaggg atgtcctcag cgtcgaagaa catgtgctaa ggtgtatact atcaacccca 420  
aaaaacccaa c 431

<210> 31831

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D10

<400> 31831



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ac 62

<210> 31832  
<211> 365  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-054-Q1-K1-E2

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ttctggcacc cccggcgccg tctcaagacg gttcacgaat tgctacaacc tttccgattt 180  
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atcaaagttt gacctgttca cgtgccgaat tgggtgccaat tacgcgtctg gtggatctgg 300  
cattctcaac accacgggaa acgggacact cacgctgcaa aaacaaatca cgctgttctc 360  
gaaaa 365

<210> 31833  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-E3

<400> 31833

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attctttcca agacgaagag ttcttatatc tcatcatgga ataccttcct ggccggggaca 180  
tgatgacttt acttatgcgc aaggacatac taacagaaga tgaagctaga ttttatattg 240  
cagaaactgt gcttgccatt gagtctattc acaagcacia ctatattcat cgggatatca 300  
aaccagataa tcttctatta gatcgagtg gtcacctgaa gctttctgac 350

<210> 31834  
<211> 380

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-E4  
  
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 gtgatcccaa tgaggagaac gtcacccttg gacccactgt ccgtgaaaga gagtatgtct 180  
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 ctggggagggg aactctgggt cggatcaccg gtggcatgaa tgtgaaagct gaccgtgatg 300  
 agtcgtcacc ttacgtctgt atgcttgctg ctcaagacgt ctcacagcgc ttcaaggagc 360  
 ttggcattac tgcactgcac 380

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 gcccggctga ctacgcctcc ccggtgaagc tgaacgggtt cgcgtgcaag gcgaactttt 240  
 cggcggacga cttcttcttc gacgggctga ggaacccggg caacaccaac aaccggcgcg 300  
 gctccgtggg gacggcgggc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360  
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 ccaccgagat ca 432

<210> 31836  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3068-054-Q1-K1-F10

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acgacggtga aaactacatc gggtgctagc tccgacggtg gtgctgtccc tgttgacgat 180  
agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240  
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atgtatgtgt atgccaagg cgcgcgcgcg cggtctctgg cgagtcacag tagagatgca 360  
atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt agtaaagtgt 420  
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<210> 31837

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F11

<400> 31837

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ggattcgagg gctcatgggt aggatggacg ctcttgattc cctacgaaag tggtttctat 180  
tggccctaaa catgattgcg caagcactat caagggtgaca ggaaaggaag cttctgcagc 240  
ttggattgcc aatagagtga agcctatgtt gattaaaaag ccaaggcttg gtgcaagaga 300  
aatgcagtat atgttgagg atcaattcac agtcactttg tcatataaca aggtctggga 360  
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<210> 31838

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F3

<400> 31838

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ctatgcagaa ggggcgaacc atctggtgat ttttttccgg tcattttctaa tagaggacaa 180  
ggcacctggc gtctttctct acgaggagtt tctcgtgcat gtccacaggc agatccaaag 240  
caagatgacc tgagggccat gcgaatgcaa aggcaacatg aactgagggg caggctggca 300  
aatgcaaaag caagatgacc tgagggccca gatcctgtct gtagcatttc ggtcagtaga 360  
tggtattgtag gtacccaaaac gagttcgatt tc 392

<210> 31839  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F4

<400> 31839

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atgtctcacc gtaagtccga gcacccgagg cacggctccc tcggcttctt tcccaagaag 180  
cgctcctccc gtcaccgcgg caaggtgaag tcattcccta aggatgaccc 230

<210> 31840  
<211> 371  
<212> DNA  
<213> Zea mays

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<400> 31840

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tagactcacg gagagaagtt gatgaagtga aggaattaat tgagatagtg agggagtata 180  
ttcttgggtc gaagatggaa ctcaagagaa aggaattgag ggatgatgtg acccgccaac 240  
aggagttggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300  
tttctagcgc catggctctt tgcttcaagc agaaaaacta tgctactgca gcacactttg 360

caaggatgct t

371

<210> 31841  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F9

<400> 31841

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tagactcacg gagagaagtt gatgaagtga acgaattaat tgagatagtg agggagtata 180  
ttcttggtct gaagatggaa ctcaagagaa aggaattgag ggatgatgtg acccgccaac 240  
aggagttggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300  
tttctagcgc catggctctt tgcttcaagc ataaaaacta tgctactgca tcacactttg 360  
caaggatgct tcttgagaat aaccctcaaa aagct 395

<210> 31842  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-G10

<400> 31842

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cgcgtgggcc gccgggctgt gcgccgaccc cgagacattc gccagaacc gcgagctgga 120  
ggtgatccac tcccgctggg ccatgctcgg cgcgctcggc tgcgtcttcc ccgagctgct 180  
ctcccgcaac ggcgtcaagt tcggcgaggc cgtctggttc aaggccggct ccagatctt 240  
cagcgagggc gggctggact acctcggaac cccagcctg atccacgcgc agagcatcct 300  
cgccatctgg gcctgccagg tcgtgctcat ggggtgccgtc gagggctacc gcattgccgg 360  
cgggcccgtc ggcgaggtcg tcgaccgcgt gtaccctggc ggcagcttcg accccct 417

<210> 31843  
<211> 287  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-G8

<400> 31843

tgtgaaaacc ggatattaaa ttgtgaaggg ttctaaggat gatattacca tgcaaaatcc 60

tgccaccggg gatatttcaa tcccttattg gatggcttgc ttgtccactg gtattggaac 120

tcggccattc gttggggaat ttatgaaaca aattggccag gccaatcgcc gtgtcttggc 180

tactgatgaa tggctaaggg tccgtgaatg tgatggtgtc tatgcaatag gtgactgtgc 240

tacaataaac caaaggaaag ttatggagga catttcagaa atattca 287

<210> 31844

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H1

<400> 31844

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gaaggagact ctgcgcgtgg gaggtactc taccttgaaa accgagttgc tctagcaaga 120

atactgtttc ctatggaggc aagggtagca atggacattg ctcaagtcga tggaacactg 180

gaattcacc c ttgtttctag tgtgaatctg cctgccgaga tacaacggac agttgacctg 240

aacgatactc ctttcacaat gaaggaagaa cacctggctc ggatgagagc cctatccaag 300

acagtggaag tcgggaagcg tttctttccg cgggtgttcga aagtacttga cacgatca 358

<210> 31845

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H4

<400> 31845

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aaaaaaaaa aaaaaaaaaa aggggaaagt taaatattag ggtggccgtt ttaaaagatg 120

gcggtgtgct ttctcgtatc ataccattta atctccttta tgttacgtca cataaattct 180

attgtgtggc cgaaatttta caaaatagcg accggtaaaa aactggcgga cggg 234

<210> 31846  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H6

<400> 31846

cggacgcgtg ggcggacgcg tgggcggact cttgggtccg catccccaaa ttaagccccg 60  
cgcgcaaggc agcattacgc gccgcgcacc ggaaggcccc ggggagctgc acgaggtggc 120  
cccattgcgg catggctgct acggccgccg ccgctggcgt cgagttcccc ctcattggcg 180  
ttgccgtggc cacgctcatc gtgacggtcc ttgtcgcggc cgtgatgcgc cgccgccgcc 240  
gttcctggca ccaagcgctt ctggtggagg ggaaaccgcg accagatgca agctgcgcgg 300  
tcagcgattg cgggacggac gtcacatcgc tcggcgccgg ggtagctgga tc 352

<210> 31847  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-054-Q1-K1-H9

<400> 31847

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cacggcctcg ccggggtgaa gagcaaggag ctctcatct gggtcaccat ctccgagatc 120  
gtcctcagcc cctccggcac caagatcgtg ttccgcaccc ccgcggggct cggccgcgcc 180  
ttcctgtca ccgccttcca gctcgagccc gagggggacc acaaggccga ggacgcgcgc 240  
gccgccgncg ncaactgacg tgctctagct tccggcggcg gcggccgtgc gtgggctgct 300  
cgatccggta gtggcagtgg ctttgtgaga cagtcgagtc gattgtgggt tccccctctc 360  
cgccatgtgc gtgtagtgga tgatgatgca ngaataaacg gtgtccctgg atccagaact 420  
cacgggtcga t 431

<210> 31848  
<211> 342

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-E10  
  
 <400> 31848  
  
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 accatctcac cgacgaccag atcgccgagt tcaaggaggc cttcagcctc ttcgacaagg 120  
 acgggggatgg ttgcatcacg accaaggagc tgggcactgt catgcgctcg ctggggcaaa 180  
 atcctacaga ggctgagctc caggacatga tcaacgaggt cgatgctgat ggcaacggca 240  
 ccatcgattt cccagagttt ctcaacctta tggctcgcaa gatgaaagac accgactctg 300  
 aggaagagct caaggaggcc ttccgtgtgt ttgacaagga cc 342

<210> 31849  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-B3  
  
 <400> 31849  
  
 cccacgcgtc cgcccacgcg tccgcggagt gcgagccagc cggcgagcta caaccctgt 60  
 gatgcagccg cgtctgcccc gatgatgacc accatggcgc cggcgatgca cgatccgttc 120  
 tacgcctcga acgggtacgc ggcgccgcac ggctgcaga tggcggcgat ggctcaccac 180  
 cagcagcagc agcaggtttt catgctgcag cagcagatga tggcgccggc gccggcggtc 240  
 caccaccoga tgcagatgca gcagaacccc gcgaaccctt tcggcaaccc cttc 294

<210> 31850  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-B4  
  
 <400> 31850  
  
 cccacgcgtc cgcccacgcg ttcggccaac tcgtcgttca agccgtccgg gaaaaggacc 60  
 ggggtggggt gggtaattc taaccgagtt gagcagtgtg cttagtgcta ctggtttctg 120  
 cctggagagc tgatcaaagg atatctgtag cgtgttggtta tctgatctga aaggagtg 180



ttgacctcca acgttggttca actcgatttt gctagcgttt cagtaggggtt tttctagact 240  
 tgcaaacggt atgcttttctg cagattctga agcgtctgca tccttttctt tttcatctat 300  
 gtactggggc tcttggtgtg gactggaaat tcgttaccac gttgctatgc tggaacatgg 360  
 aaaagaaaaa aaagagat 378

<210> 31851  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B6

<400> 31851

tgtgcctccg cctctgccac cgcgccgacc gtactgcact gagaagaaac cgaatgtcaa 60  
 gagttcgctt gttggtggaa gaaagacaaa ggcctcagct ccacactggc actgacccca 120  
 ttatctagga tcttcgagca taactctgaa gccgtgaagg taaaagctat gcgtctgacg 180  
 tgacctagaa ggctgcatcc atcaagcaac gattgatgtt atctattgta gcttaccagc 240  
 agtcttctga cttgtcacct gtgttagaat aaaccgagta gttagtgtat gtagcaacgc 300  
 gtagcatata tatatatata tatatatcca ctaatgtcta attgaaccgt agtagaactg 360  
 ccttggtatt aactagaaca ttgtatatac ctggaataat tggaagctga gtatcgaacc 420  
 aggagttatc cgcacggttt tgcaggtc 448

<210> 31852  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B8

<400> 31852

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 tgggttctgt tttgccagga gctgctcaag gacgcaaggg tccaattttt gaggaagggg 120  
 caggctttca gtcagcattc aagcttttcc atggccgaga tggaatagtt cccctttcag 180  
 aaagatcata tgtatctgat gaaaaccaca atgagagcat tgatgtcagg actgaacctg 240  
 ctctgccgtt taatccattg gctgctagag cagccacaat aagtctatca gcatttggac 300

catttggttt tggcttcttc aacggcaagg gcaaaatgca aaacaagaaa cccaacaatc 360  
tatatcagtc ccaccagaag cccaagacac caaatcagtc 400

<210> 31853  
<211> 230  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-054-Q1-K1-C1

<400> 31853

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aaaggtaaaaa tttaaaaagg gggggggggg gcctcccaat taaaaaaacc caaattcccg 120  
tgcccgcgaa tgcaaaacta ttttttttgt ttaccgaaac caaaattaaa tgcacggggc 180  
ttacaacaac aacaccggga aaaccaaacc cctacccaaa ccaaacttaa 230

<210> 31854  
<211> 274  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-054-Q1-K1-C10

<400> 31854

aaaatctccc actcatccca caccctcaa ntcattttac aaatttcacc cttgattcaa 60  
cctcaacaat ttcttctttc ccctcttatt acttcaatcc cattccctta tctaaaattt 120  
cactttatac ttacatctt acctttcaat cttattaatt cattcattca cttcatttat 180  
tttattacct ttcatTTTTc taccttaata ttactattta ttctttccat ccatttacct 240  
attctttttt ttatttttct tcaacttttt caat 274

<210> 31855  
<211> 233  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-054-Q1-K1-C3

<400> 31855  
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 ggtttgtttt ttttttattt tgttttaggta atnataaatt ntattttttt tttttttttt 120  
 tccccggaaa aaaccacccc cccccccccc ggggacaatt taaaaaaaaa aaaaaccccg 180  
 gcccccaaaa accaaaattc caacccccca aaaaaaatTT cacatttttt ttt 233

<210> 31856  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C4

<400> 31856  
 tttatagggg aacaaaaggt aaaaaacatt gggttggcgt aaaaaaaca tggtgacttg 60  
 aaaaaccatt gttttaccta aaattaagag gccagaagaa aataaacctt tcttgccagc 120  
 tcactctttt tcaaaaatgc ccccccaat tagaccttcc caaaaatt 168

<210> 31857  
 <211> 82  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C7

<400> 31857  
 ctagtcttag gcggccggcc gcgttctaatt tcgtttccct taagattacc tgaggccacg 60  
 gcgagttcta tcgggtaaag cc 82

<210> 31858  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C8

<400> 31858  
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 gcaattagga accaagtga aatagcagct gcggcagtgt tgttcataa tattatacgg 120

atgcacaacg gggatgaagg ttggttgaat agccaaacaa gtaacatata gccagaaact 180  
 tttgttgatc ttcctggagg agacaattac tatagcaatg atgttgtgtc acttaatagc 240  
 caagtggata atgggaactc tgtagagat atgattgcat tgaatatgtg gaatgattat 300  
 agtcaacatc gttcatgata tatcaagaat gtttgaaga ggatctccta ggatgaactt 360  
 gatccaagct gcaactatga aaaaaatata cccagatct actactaaca agcgcaagaa 420  
 gagaaca 427

<210> 31859

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D11

<400> 31859

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 gccaaaccagc tcgccgaggc ggacgagttc gaggacaaga tgaaggagct ggagagcctc 120  
 tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg aagacatggg cggcgctggc 180  
 ggcatggacg aggacgcccc cgctggcagc ggcggccctg gcccgaagat cgaggagggtg 240  
 gactaagcgg tttgttgtca gtcttgagcg tgctgcagtt gctggctggc ccagtcgctg 300  
 ccgcgagtta tcgtcgtcgg tcggtgcggt gtgtccgctt aaactttatt tgtggtgggc 360  
 tgggtactttt gtggtggtta ttttttttgg acctcgtgat agtcggtcgg ttccatgtta 420  
 tcgcggttac tggcaaacct taagtgat 448

<210> 31860

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D12

<400> 31860

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 tttgagcaca aagagaagac cgtgacacag actatagcga tcattaagga gcaaatccgc 120  
 ctgtggattc taggaggagc aaaacactta gcaaggctgt tgtaggtttt aggggaagggg 180

aggggttggt tttgaaacat ttgtgtcacc atacttaatg tctccttcac tagtgtgatg 240  
 tacttgtata ttttagtcct cgctgcttca ccttcttttt aatataacag acaattctct 300  
 tgccagattt ttttttaaaa aagaaggcag gaacgtgata ctgcccagag gggccagggg 360  
 ctcttttttag ctagcctaaa tgcgtgtcac tctccttgct gtagctgatt gcagcttcca 420  
 tgtgttcctg attgctaaat gct 443

<210> 31861  
 <211> 122  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D3

<400> 31861

ggaatgttta gaaaccggga gagtagcagt cttacatata acacaagaaa tgtactcgta 60  
 gtgccgttgc tgacagaata cttcattagt acagttgcta tgaataaaga atcttcagcc 120  
 ac 122

<210> 31862  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D6

<400> 31862

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 gccggccgcc tggttgccgg tcgaatccgc cctccagccg ctgccaacgt cgatctgcta 120  
 ctgacgcacc gcaaggagc atttagctgt agtgagatgg atatccttta tcagtgtgtaag 180  
 gaggttttga agatccagaa gtttcggcgt atggtgtcat atgctggatt ctactgcttc 240  
 acttccctca ttacttatgc ttacacaagc aatacgacaa gggctgggat gtcaagggct 300  
 gaccagtatt attcctccta cctgctggt actgaactac taactgacac tgcaaagctt 360  
 tacaaggctg cattgggcaa ttgttttgaa gtagatgaat ggggcccaat agagttctcc 420  
 atcatggcaa aaca 434

<210> 31863

<211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-D7  
  
 <400> 31863  
  
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 gaggcgggcg tgcagccatg gcgctggtgc atgcgggcat gggccttacc cgggtcgtta 120  
 tcctcgtcgg cgccggcggt gccggctcgg tcgtcctcgg caacggccgc ctgcgcgaga 180  
 tcctcggcga gctccaggag atactcgaca aggggaagaa ggtgaaggat ggaggagggg 240  
 gagacgggga aaccgatctc aacgaggctc ttacctcgca ggtgcgtcgc cttgccatgg 300  
 aggtccggca acttggtaat tcacgttcaa taactgttct caatggaggt tctgcacaat 360  
 caggagtatc aggcctgata gtacctgcag caactgtagg agcactgggt tacggttata 420  
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<210> 31864  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-D8  
  
 <400> 31864  
  
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 aaaaaaaaaa gagaaaattt aaaaaaaaaa aaaccaaaaa caaaaaaaaaa taaaaactta 120  
 caaaaatcgg catcctacat aaacaacaca caattataag ttccctttta ttcaacaaca 180  
 tactccttta ataaatcccc cttaactcaa ttgtctgtcc tctttaaaaa aaacaaactc 240  
 cctggaaata cccttccttt acccatcttt ctttctttcc aacacttttc ccttttatgc 300  
 cccttccttt taacctataa tccccgaaaa tacctttttt tccccatttt tctcc 355

<210> 31865  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-054-Q1-K1-D9

<400> 31865

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gatttccagg agagagcgct gttgatcagt tggtagagat catcaagggtt cttggtactc 120

caaccctgta ggagatacgg tgcatagaac ccaactatac tgagttcagg tttcctcaga 180

taaagggtca tccatggcac aagattttcc acaagagaat gcctcctgaa gccatagacc 240

ttgcttcccg tctccttcag tattcaccaa gtcttcgttg ctctgctctt gacgcatgtg 300

ctcatccctt cttcgatgag ctgcggacac cgaatgcacg cctaccaaac gggcgcccgt 360

tccctccgct ctttaacttc aagcacgaac tagcaaatgc ctctccggac ctctcagca 420

ggcttgtgcc ggagcacatt agacggcaga tcgg 454

<210> 31866

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B2

<400> 31866

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agcaagtgcc atttatgttc cacctgtctc gcaaggcact attgatctcc agagtggaaat 120

cctccatgct gaagaaaaag attacaagac tgcttacagc tacttctttg aagcatttga 180

agctttcagt gcactggaag acccgaaagc catcttttagc ctgaagtaca tgctcttgtg 240

taagataatg gttaaccaag ctgacgatgt tgcaggaata atctcgtcta aggctggcct 300

aaaatatctg ggtcctgatg ttgatgctat gaaagctgtt gctgatgcat actctaaaaa 360

atctctcaag tatt 374

<210> 31867

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-H12

<400> 31867

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accacatcca ccatggagaa ggacgacggc atgcctgaca gatgccatga tgctaccag 120  
aaccagaaag aggcttcagg tcacgctggg gccgcagcag atgcaacggg taggccgcat 180  
cgngcagcc aagcttcccc tgaaaaacat acaggtcccc aggtggtggt gaacgacaag 240  
ttctgggagc agttccttac cgagaggccg ggctgtcccg aaacccgaga agcaagct 298

<210> 31868  
<211> 113  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H2

<400> 31868

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agttcgtaaa ttatgtgtat gcgtggcgtg gataaagggt cgagagattc gtt 113

<210> 31869  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H3

<400> 31869

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gcctgcttaa gcctggcggg ggtgaatacg gcaagttctt cagccttcgg gcactaaatg 180  
atccaaggat cgataagctt ccgtactcta tacgggttct cctggaatca gctatccgcc 240  
attgtgataa cttccaagtt acagagagtg atgttgagac aatcattgat tgggagaaca 300  
catctccaaa gctggctgag atacctttca agccagcgag atgcattcta atggacaaca 360  
ctggagtccc agcagttgta gaccttgcag ctatgcgtga tatgatgcca aagctgggat 420  
gcgatcccta caagatcaat ccattgattc 450

<210> 31870  
<211> 316  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-053-Q1-K1-H4

<400> 31870

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cgccctcttc gccgcctccg cagacgcggc caccttcaac gtcaccaacc gctgcaagaa 180  
cacgctgtgg ccggccgccc tccccggcgg ctgcgcgcgc ctggacccgg gcaagacgtg 240  
gaccgtgcat gtgccgacgg gcaagggtgca cgcgctggtg tgggcgcgca cggggtgcag 300  
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<210> 31871

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H5

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cataacgtaa ggttatcaca gtctgctatc attacctgag gtgactataa catcaccaga 180  
ctacttcaac tcggctaccc caaattaaaa ccaactggctt ttcaatcaaa cgcgatgacc 240  
aattgtgtga atcaacgagt tcctataatg ctaggccgat ttactatatc caagcttacc 300  
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<210> 31872

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H6

<400> 31872

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ctgtccttca taagctcggg gcccaagttcc acctgcgctc gatcatctct gaaggtgtac 180

gggcccgtaa catatgcccc tctgtctcat cttatgaaag gagatttgcc acaaggaact 240  
 acatgaccca gagcctttgg ggccttcaa tgtctgttag cgggtggcatc aatgtcccag 300  
 tgatgcagac cccgctctgt gctaatactc ctgctgagaa aggaagcaag aacttcatga 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H7

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 gcctgcttaa gcctggcggg ggtgaatacg gcaagttctt cagccttccg gcactaaatg 180  
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 attgtgataa cttccaagtt acagagagtg atgttgagaa aatcattgat tgggagaaca 300  
 catctccaaa gctggctgag ataccttca agccagcgag atgcattcta atggacaaca 360  
 ctggagtccc agcagttgta gaccttgtag ctatgctgta tatgatgcca aagttgggat 420  
 gtgatcccta caagatcaat ccattgatt 449

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 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H8

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 actgttcttc ataagctcgg aggccagttc cacctgcact cgatcatctc tgaaggtgta 180  
 cgggccccga acatatgccc atctgtctca tcttatgaaa ggagatttgc cacaaggaa 240

tacatgaccc agatcctttg cggcccttca atgtctctta ccggtggcat caatgtccca 300  
 gtgatgcaca cccactctg tgctaagtgt cctgctgaga acggacgcaa gaacttcatg 360  
 attgatttca tgatgggcgg tgtttcagct gctgtttcaa agactgctgc tgctaccatc 420  
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<210> 31875  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 31875

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 ggacctgagc ttcaacaaga ttacgacggc caaggcgctg gggcagctgg tggccaacta 180  
 ccactccctc ctggcgctca acctcgtagg caaccgggtg caggccaaca tcggcgacga 240  
 cgccctgcgc cgggcgggtca cgggcctnct nccgagcctt gcctacctca acaagcagcc 300  
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<210> 31876  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 31876

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 catcaccggg cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg 180  
 cgccttctac acctacgacg ccttcatcga ggccgccagc aagttccccg gcttcggcac 240  
 caccggcgac gagcag 256

<210> 31877  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-054-Q1-K1-A10

<400> 31877

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gagtttttgt ccggtcaagc agcatcgagg accggtgcgc acgtctgggc cgactaccaa 180
catttcagta aggatgagca ccgctccacg ttggtgcctg cgtctcaggg gtcggcatgg 240
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ccgacacaca ttgacatacg tcaaaggcca tagatccaag gacaatggag gtgcattgca 360
cacggaccac gcagcaggct gatcnttcgc cggcaaagca tctggaggat ggtcgcacct 420
tggttgacta caacattcat aatgagagca ccctccacct ggtgct 466
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<210> 31878  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A11

<400> 31878

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ctatgtcagc ccagtcaaag gtgtatcgcc gacacggtcg gtcgcaacac ctctccgaga 180
ctgtcattcg atcttctgca aggtgaacc aagatccgat ttcgaggaga gtcaacgggt 240
ggatcttggt caaagtctca agcaccctca caaccgaat tcaaaaataa tataacccca 300
tgggacaagg tgaccgcgaa tttgttgatg gaaagattca aaactatttg aaaagtcatg 360
ccgattt 367
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<210> 31879  
 <211> 304  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-054-Q1-K1-A12  
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 cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgaccccac 180  
 cgacgtacac ccctttccca aaaggctcga cgcccaagcc gaccccaccg acgtacaccc 240  
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<210> 31880  
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 <212> DNA  
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 <223> Clone ID: LIB3068-054-Q1-K1-A3  
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 aaaaaaaaaa aaaaaggaaa ggttttattt tatatattag gtgtcctttc aaacgcccc 120  
 ctccataaaa atacaataac ttttaaaaac attcacttta at 162

<210> 31881  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-054-Q1-K1-A7  
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 gcaagccgac cccgccgacg tacaccctt ctccaagcc tccgacgccc aagccgaccc 120  
 cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgaccccac 180  
 cgacgtacac cccttccca aagcctccga cgcccaagcc gaccccaccg acgtacaccc 240  
 cttccccaaa gcctccgaca cccaagccga cccacccgac gtacactccc acaccgaagc 300

cgccggccac caaagccgcc acctacactt cgacgccgtc ggtgttttac acccccagcc 360

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<212> DNA

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gaataaaaaa aagaagaaaa ttctggtttt ttctttccaa aattcgatat aggctgaaag 120

acaatcagat cttttttctc ttcagcgggc agttccatat agaatttgtt agaataaaac 180

aagcgggtt 189

<210> 31883

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H10

<400> 31883

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tggtgttacc gtcagagttg acttgcaatc ttagctcctg aacctggcgg ttaccgtgga 120

tcagagttcc tggtgaattt cacaaaagcc tacttggtcc taatagattg ctgcaaccaa 180

caatattacg accctttcgg gctttt 205

<210> 31884

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F10

<400> 31884

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ttgcttaaaa aaaaacctga aaaaagcaaa aaaaaaaaca ataactaaac aaaattatat 180  
 aaaaatgaac acctcacaat gatgacatcc ttgaatgtac taagaccctt ataaagctca 240  
 agtgtacaga atacaactct aattctacga aaatggagac catttttgga ggcccathtt 300  
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<210> 31885  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gagatcgaca gagtcaagaa ggagaacgac aacatgcaga ttcagctcaa gcatctgaaa 240  
 ggcgaggacc tgaactccct gcagcccagg gagctgatcg ctattgaaga gggcctgcag 300  
 aatgggcaga ccaacatgcg cgagaagcag atggactact ggaggatgca cagcacgaat 360  
 gggaagatgc tggaggacga acataagata ctgactttta ngatgcacca acaggctg 418

<210> 31886  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F12

<400> 31886

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 aaaaaaata ccaacaaac tctaaaaaag atttctctaaa atacaaaaaa aaaaaaacct 180  
 tatttcataa aatcaacaga gttaatatatt attacgacta catgcatatt catctcactc 240  
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<210> 31887  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F2

<400> 31887

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agagagagag atgattcagc ggaaatccta caattgtgcc tacatgttcc tggatgtttt 180  
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accagcatta aaagcgtttg tagtcctaga gggacttacg caagctacgc aaccgaacgg 300  
gtacgtacta acgctagcta gtcagccctt cagatggcct ttaactcggg ggcaaaaagt 360  
cgttcctgtc caacgaccat ggtaatatgg tcct 394

<210> 31888  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F4

<400> 31888

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ctaacgtttt ctatacagta acctaacacc aattaattgg acttcgttct aaaagctcgt 180  
gactgtgaaa accatgcgtt aacaaaaatt aaaggccttg cgcatacata aggcattcgc 240  
aaactggcta aatagcgatt aggccccac caatagctat taaaaacagt tccacagact 300  
gaatcactaa tgggaccccc catgtaccgg cgcataaatc acataatctg agatgtaaac 360  
cccagcatg cccggtaaaa ttacaactac cctaccgcc 399

<210> 31889  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F5



<400> 31889

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ggtccacccc gataagaacc cgaatgatcc gcaggccgcg gagaagttcc aggaactagg 180

agaagcatat caagtttctca gtgaccctac acagcgccaa gcttatgact cacatgggaa 240

agacggcatc tcaacggagg ggattataga tcttgaaca atttttgcaa ttctgtttgg 300

tagtgagctt tttgaggaat atattggtca actggcaatg gcatcaatgg cttcacttga 360

taattttggt gaagatgagc agattgatgc aagaaagctg caagagagaa tgcacgctgt 420

tcaaaaggat cgggaagaaa gacttgca 448

<210> 31890

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-F8

<400> 31890

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ctgtttactg gcaaaccata agacggtgtc taacaattca ctcatatgat catctaatac 180

actgttttgc actgtacatt gtgcaattcg cagattgaaa tttgaatata ggtacaagga 240

tgggtaaaca ctggagatag ctagcctaaa gatgaatttt agatatatta tgtatgagat 300

agctagccta aagagggagt tttagatata ttctgtagtt gatattcgag tggatcatgca 360

gttacgatcc ctcatgttta gagataaatg ataggaagac accttgtctt tcgntcatgt 420

ttaggttgaa gtttagaaat tacgatgtat at 452

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<223> Clone ID: LIB3068-053-Q1-K1-G1

<400> 31891

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gaaattacaa aatgaaacac tctgaagaat taatacaatc ata 163

<210> 31892

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G10

<400> 31892

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agcaagggtt ttgttcgcaa aaaaaaagac aagacgat 158

<210> 31893

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G11

<400> 31893

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cggctcaggt tcaggctccg gctctggcgc cgcgcggcta gcaatgtcgc ccaccgagct 180  
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ttcggacagc cagcgtggc ctcgggtgag cgtatacaag ggccaccctt tcctcagaaa 360  
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<210> 31894

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G12

<400> 31894

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cggatcatgt tcatgctcca gctctggctc cacgcggcta gcaatgtcac ccaccgagct 180
gcgcgagctg ctgcagaagc gggagctcgg ccactcgata acgatccact actcgccagc 240
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ttcggacagt cagcgtgttc cttgggtgag cgtatacaag ggccaccctt tcctcagaaa 360
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<210> 31895

<211> 286

<212> DNA

<213> Zea mays

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<400> 31895

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tgatcactgg caaaccatat cacagagtct aacaattcac tcatatgatc atctaataca 180
ctgtattaca ctgtacattg tgcaattctc agattgaaaa ctcaatatat gaacaacgat 240
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<210> 31896

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G3

<400> 31896

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catcgactcg gcgacgggcg actgctacct ggtgtacgaa tacgtggaga acggatcgct 180  
tgacctgtgg ctgctggacc gcgaccacgc ggggcgcctg aactggcgcg cgcgccttca 240  
catcgcgctg gacctcgccc acggcctgca gtacatccac gagcacacct ggccgcgcgt 300  
ggtgcacaag gacatgaaga gcagcaacgt tctcctggac gcccgcatgc gcgccaagat 360  
cgccaacttc ggccctcgcca agacggggcca caacgccatc accacgcaca tcgtggggcac 420  
ccaggggtac atcgcccccg agtacctcgc cgac 454

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<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G6

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tcaatacata aacataagac aacatcatatc tattcccgctc ctatcgatta ggcattataa 180  
atcgaggtaa tgaacaatac tcacacccgg gagccttcat ataaaatagt gacatatcaa 240  
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<210> 31898  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G7

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ggatacatta ccatccaata actctatact atcgccctcc aattcacttg cacttcggca 180  
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gctcttg 247

<210> 31899

<211> 464  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H1

<400> 31899

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atgcaaccag caaccatcgc caagcttatt tgctccagga aaccctgcgt tgacacactc 180  
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240  
ttaccaccta tagcaagacg gtgatgcacg gtactttgcg aacggtgcaa gccgcgacgt 300  
gaacccacag gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360  
ctcttactga gcagctccca ccaaccaacc gcaagagcaa cacttcaagt gtaagaagtc 420  
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<210> 31900  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F1

<400> 31900

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gcagccatga gatggtatgc atcggtagcc tcttgagggc gctggtcctg agtgcgggcg 180  
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tgactcctcg gcacggacac ggctggcgca gattccgggc agtcacggga aggatgatgc 300  
tggactcctc tgactgtgcc tctgctgccg ccgacgcgga gacggggcaa gtgcagccgc 360  
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gggagagaga agatggcaaa ctgagttgtg gatactcaag t 461

<210> 31901  
<211> 278  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D11

<400> 31901

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gacagaataa tttaaaagaa caaagctaac atacacatca aactaactcc aaaactcttc 180
aaaagagtaa acaaatataa attaattgac caaatTTaaa aaaagagtga aacttaaaaa 240
accctgattt caccaaacta aaccccatgc aacgaaaa 278

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<210> 31902

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-D12

<400> 31902

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gatccggcct cccctctctc cgcgcccacc tcgcatcctc cgaatccgcg gccgtcgttc 180
aggtttcgag gggcttcgcg tcgcaggccg ctaagcccac cgggaaggag atcaaggttc 240
caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcctc acagcagcta 300
aatctaagtc attggacaaa gttgaatctg agattaaagc tattgtagag gtttccaaga 360
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aggctatagc cgaaatattt gc 442

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<210> 31903

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D3

<400> 31903

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 caccgagget ctacctgcac cgtgccaggg ccgcttccga ggacaegtcg gcctacggcg 240  
 gcgacgagct catcgaagac ctcaaggcaa agtgggacgc cgctgaggac aagcccaccg 300  
 tcctcctgta cggcggcggc gccgtcgtgg cgctatgggt gacgtccgtt gttgtcggcg 360  
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<210> 31904  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D4

<400> 31904

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 atcctgaaga ccgcactcat cacaccagca ccttgtagca ttaccgcac c aaccgacacc 180  
 atcaccacct taacctacaa actcaccgct aactcaatg cacctcccca acttacatat 240  
 ccatgacacc tacttctctt gcctacatta gtcattgca cacactcagg caaccttgga 300  
 cacctgatac gacaatc 317

<210> 31905  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D5

<400> 31905

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 gtttaacctg agcttggcga tgggttatac agaacggaaa ctctgtttgt gaatagaaaa 180  
 tcatgaaggg aaggagttga ccggaccctt acttgtagct ctccccggct gtgtaggtag 240

attgtcagtt ggggttccga agtactctac tcatacgtgt gatatgacagt ttatttatga 300  
aacaaaatac gcattgatcg tt 322

<210> 31906  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D8

<400> 31906

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cggccgcaag gccgggctgg cggaccggct ggcgcaggac aagggcaggc atgcgaagct 180  
ggcgtgcccg ctctgccgta ccccggcgcc cgacatcaag tccatgcaga tccaccacta 240  
ggcgcgccat cccaagctcc cattcgagcc ggagaagcta ctcaacctgc actcctccgc 300  
ccccgctgct gctgttgccg acgacgccgc cttcgccctcc gctgccgagg ccaccaccta 360  
ctagcccaag ccctgcg 377

<210> 31907  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E1

<400> 31907

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tcgacacgtg acaaagaatt ccgacccgat cggcccaagt taaataccac tactattaac 180  
aatgagttac ttatcccccg gttccgaagc gggacatacg tcccatatct tgaatacaag 240  
ggccatccta attgcgcca tccgctcgga ctacatctac acgtctaaag ttattctcat 300  
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tcccttggc 369



<210> 31908  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-E10  
  
 <400> 31908  
  
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 tactttctta tcatccgacc taattctact tatctagcct ctctttctaca aattttaaate 180  
 ctatgcaatc tttcaccttt accaacttta aatcccttga tacacctaac gttaccatct 240  
 atctctttaa tcccatttat gcattcacct atcgccctac catataacga acccattctt 300  
 acttgcgaaac cttac 315

<210> 31909  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-E11  
  
 <400> 31909  
  
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 tgctcgcaaa ttaccaatt cttacacatc taggtctaca taacaaatat caataccatg 180  
 cacattagac cctgacaatc ataataacc caatctaaat gacttaaata ggatccattg 240  
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<210> 31910  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-E12  
  
 <400> 31910  
  
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tgggcgggcgc ttgcgggtac ggcaacctgt acagcacggg gtacgggcacg agcacggcgg 180  
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 gcgacaacga cgggcggtgg tgccctgccg gcaccatcac cgtaacggcc accaacttct 300  
 gcccgcctaa ctacggcctc cccagcgacg actgcggctg gtgcaaccgg ccgcgcccgc 360  
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 ccgtcgcgtt caggagagtg c 441

<210> 31911  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E2

<400> 31911

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 gggccgctaa gaaggccatg tccaggagct ccaaggccgg gctccagttc cccgtgggaa 180  
 ggatcgccag gttcctcaag gccggcaagt acgccgagag ggtcggcgcc ggcgcccccg 240  
 tctacctcgc tgccgtgctc gagtatcttg ctgctgaggt tctcgagctt gccgggaacg 300  
 cggctcgtga caacaagaag acccgcatcg tcccgcgcca catccagctc gccgtccgca 360  
 acgacgagga gctctccgcg ttgctgggca cggtgaccat cgccagcggc ggtgtcatgc 420  
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<210> 31912  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E3

<400> 31912

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 gagacctgta aaataagcgt gagcctaagc tctcaagtca aataccacta ctactaacgt 180

aatattactt atttcgtgaa tcctaagcag ttcaccgtcc gtccttttgg ctacaaggcc 240  
 cgggtctcttc gtgccgatcc ggactaacta catcttcatg tctaaaagca tgctcaatac 300  
 tcacatttat taaacgataa cacaggtgtc ctaacatgac catatcaaga acagatttct 360  
 agtacctaac aaaatgctaa atgctcgtca cattctcaat ttc 403

<210> 31913  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E4

<400> 31913

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 gctcaaccgc tacatcaggc ataaccgtac cgtagctgcc gatctaggac tcgctatcag 180  
 aactgaatcc tatgcataca ggacctagac agacatccaa aagggtgaga cgctgaaaga 240  
 gaccatggat ctcttccac acatcgctac attctgctca gatgctgcc ctaacgaagc 300  
 cctcgatacg aggtaaccag agaagcgcca actgactatc ccatatggcg gtaaggtcct 360  
 tcagttacat gactttcctg ctgataatgc acacgaccat gatcaaat 408

<210> 31914  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E6

<400> 31914

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 aactatgacc attagctccc aagtcaaaca ccactacttt taacgaaata tcactcattc 180  
 ccttaatctc aagcattaca cctaccctcc ttt 213

<210> 31915  
 <211> 453

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-E8  
  
 <400> 31915  
  
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 caggcagaac ggtgccgcgg ctgccgatct cggcctcgct atcagagctg aatccgatgc 180  
 aaagaggacg tgcacggaca tggaaaaggg ggagacggtg aaggagacca tggatctctt 240  
 cccccagatc gctggattcg gctcggaggc tgccacgaag gaagccctg atgcgaggga 300  
 gccagagaag cgccaactga ctatcttcta tggcgggaag gtccttgtgt tcgatgactt 360  
 ccctgctgag aaggcaaaag acctgatgca aatggccagc aagggttcat ccgtagccca 420  
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<210> 31916  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-E9  
  
 <400> 31916  
  
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 ctctgctgcc tgcttctgta ttaaagaagt ggttcgatgt ctcagaactg aatacgatgc 180  
 aaagaggacg tcaacagaca tggaaaaagg gggagacaga gaaagagacc atggatctct 240  
 taccacgat cgctggattc aaaatgggag gctggctcta aagaagccaa tgttacgaag 300  
 gagccataga agcgcgaact gactatatag tatggcctaa atgaacttgt gggccatgac 360

<210> 31917  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-053-Q1-K1-C7  
  
 <400> 31917

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 aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cgcccccttt 120  
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 aatttcattt cactgcccgt cttttttacaa cttcttcctt tgcaaaccct tgcccttttcc 240  
 caacttattc ccctttcacc acatccccct ttcgccaatt ggcttaatcc caaaaaccct 300  
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<210> 31918  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-053-Q1-K1-A3  
 <400> 31918

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 tgttttagagc gagcgagggga aaaaagaaaa catctaagat atactccaac atcttcgttt 180  
 gattaacccg ccagtaaaag ccatgggtac taattataga gcggtcattt ctctagtact 240  
 cctcgtgtgc atcgtatgcc gatcgacctt ggggtgccgt gaaactgacg tttaacagaa 300  
 tcgctcgtca gtccctttga tgtttgtgtt cggtgattcg ctggtcgatg tcggaaacaa 360  
 taacttcctg ccgacttctg caccctgtgc 390

<210> 31919  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-053-Q1-K1-A4  
 <400> 31919

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 gcgcgagaag tccgagacat ggacaggag cagatgagga tggccatcct gaaccaagaa 180

cggatcttca gacaacaggt acacgagctg caccggctgt accacgcca gaagcagctg 240  
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 agaccgacgc agctggatat ctggtgcggc gagagggcga cagcaagtcc tcagcagcac 360  
 atcatcagct tccacgaggc cgcagcacct gcggtgcgc tggccaagga atgcaacctt 420  
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<210> 31920

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 31920

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 gatatactcc aacatcttcg tttgattaac ccgccagta aagccatggg tactaattat 180  
 agagcggtea tttctctagt actcctcgtg tgcateccta gccgctcgtc cttgggtgcc 240  
 gctgaaactg acgttgagca gaagcgctcg tcagtcctt tgatgtttgt gttcggtgat 300  
 tcgctggctg atgtcggaaa caataacttc ctgccgacgn ctgcacaccg tgctgcatct 360  
 gcgtacggca tcgacttccc ttctggcacc aacggcgccg tctcaagacg gttcacgaat 420  
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<210> 31921

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 31921

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 ggtccggccg gccgcgaaga gcgcaatcaa gcaagacaag atggtgaagc tcgccttcgg 120  
 aagcgtcggc gactccttca gcgccacctc catcaaggcc tacgtggccg agttcatcgc 180

caccctcctc ttogtcttcg ccggcgctcg ttccgccatc gcctacgggc aactgacgaa 240  
 tggcgggcgcg ctggaccggt tgggcctggt ggcgatcgcg atcgcgacg cgctggcgct 300  
 gttcgtgggc gtgtccgtcg cggcgaacat ctcgggcggc cacctgaacc cggccgtgac 360  
 gtttcggctg gccgtgtgcg gncacatcac catcctgacg ggcgtcttct ac 412

<210> 31922  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B1

<400> 31922

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 acgacctcag aggcgcgtcat cacctgcggg caggtgagct ccgacatcgc gccctgcctc 180  
 tcctacgcc gcagcacggg gtccggacct tccgcgtcct gctgtagcgg cgtcaggaac 240  
 ctcaagagcg ccgccagcac cgccgacgac aggcgcgccc actgcaactg cctcaagaac 300  
 gccgacaggg gcgtcagcgg cctcaacgcc ggcaacgccg tcagcatccc ctccaagtgc 360  
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 ctataccacg cgcgac 436

<210> 31923  
 <211> 194  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B2

<400> 31923

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 gcccatcttc acatcaatgt tcagaagtta tgtgcgctat gagatttaaa ttatgagctg 180  
 ccagattggt ttgt 194

<210> 31924  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-053-Q1-K1-B5

<400> 31924

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acgacctcgg aggccgccat cacctgcggg caggtgagct ccgccatcgc gccctgcctc 180
tcctacgccg gcggcacggg gtccggcccc tccgcgtcct gctgtagcgg cgtcaggaac 240
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gccgccaggg gcgtcagcgg cctcaacgcc ggcaacgccg ccagcatccc ctccaagtgc 360
ggcgtcagca tcccctacac catcagcacc tncaccgact gctccagggt gaactaaaac 420
ctagaccacg cgcgacgacg gccgcctgat 450
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<210> 31925  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B6

<400> 31925

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gcgtcttcga cgccgtgctc ttcattcaacg agctcgacat ccttgacatc cgctggcacg 180
agctgagccc ctacgtctga gagttcgtgc tgctggagtc caactcgacc ttcaccggca 240
taaagaagga cctccactac agggagaacc ggcagcgggt cggcttcctc gagtcgcggc 300
tgacctacgg caccatacgc tggaggttcc tgaatggaga gaacccgttc gtggaggagt 360
cttaccagag ggtcgacatc gaccagggtg tcaagatacg gggcatcgag gactacgacc 420
tgctgatcat g 431
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<210> 31926



<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B7

<400> 31926

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gcacggtacc ctagcatcag cgattcagcg ctcaatacaa gccaccgagg ccatggcgcc 180  
cgcaccggca gctctctccg cggccaacgc cctctcgctg ctcgcgcccg ctagagtctc 240  
ctccggaagg tggagcagcc tgtccgtctc cgtctcagcc cggcccgta cgggggtggt 300  
gtctgtcgcg gcggccacgg cgcagaggag gctggtcgcc gcggcgccgg cgacggagat 360  
ggcgcccgcg gcgagcgggg aagaaggag caagccgttc gtggaggaga tgcgggcggg 420  
cgcgatgaag ctccacacca aggaccaggc c 451

<210> 31927  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B8

<400> 31927

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gccatccctg aaaaactggg cgctgaaaca tggagcgcac tcttcgcgat atcacatctc 120  
ttaactatga ctctggtcc gcgaaaatgc tttgttttaa tcaaactga caaatgcact 180  
cgtttcatca agcatttaga cggtcgtttc actcccggtg aaagaactac agggcgacta 240  
tcccgcgca ctttgtttcg gtcaagctga gtctctcac gcctatccat gccttactca 300  
actgctgacc tgtaacatcg aaacggtctg ctgtacgtcg agtggtacgc ttgagcaaac 360  
aatctacagc ctattcaccg atcaccagtg cccaattgcc ttgccactcg ctgagcattg 420  
acccgcagct atttaccttg cgcacacgac acccgatat actccaactc gggcgtttc 479

<210> 31928  
<211> 461  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C1

<400> 31928

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cccacgcctg ctactaagtg ctctccagct tttccgtcaa ctactaaaac caactaacac   60
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cccagcatct acttcaagct atacaacatg aagggggaca tcgccatgtg gcataactcc  180
ttcgactcct gctacgacaa gctcatcctt gtcaccacgc ccacctagtg ctactactgc  240
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aaatacagga agctggatct caacgccacg cccaatctac cccagatgct catcgtcacg  360
ccggatctca ttatcctagc tcctgtcagc atcgcttaca ctttcaaaca tgacgacgcc  420
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<210> 31929

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C12

<400> 31929

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ggaaaaaaaa aaaaaaaaaa aaadaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  120
aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaata aaacaaaaaa taaaaaaaaa  180
aaaaattcac tagaaaaaaa attaaaaaaa acaaataatta gaaaatcaca ataattattca  240
aaaatt                                             246

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<210> 31930

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C2

<400> 31930

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cactaatcac gggactataa cattgcgagc actagcccaa catcacattg catcaccata 120  
 ctaaaatacc gtccaacttc ttcctcataa tcaaccacac gcattccaat agcacctacc 180  
 acttctaaat cagctattcc actcccgaca aacgcaccct 220

<210> 31931  
 <211> 455  
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 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A2

<400> 31931

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 tcggaagcgt gagcgactcc ttcagctcca cctccatcaa ggcctacgtg gccgagttca 180  
 tcgccaccct cctgttcgtc ttcgccggcg ttggttccgc catcgcctac gggcaactga 240  
 cgaatggcgg cgcgctggac ccggtgggcc tgggtggcgat cgcgatcgcg cacgcgctgg 300  
 cgctgttcgt gggcgtgtcc gtcgcggcga acatctcggg cggccacctg aaccgggccg 360  
 tgacgttcgg gctggccgtg ggcggccaca tcaccatcct gacgggcgtc ttctactggg 420  
 tggcccagct gctgggcgcc accgtggcgt gcctg 455

<210> 31932  
 <211> 172  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G2

<400> 31932

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 aatttttaaa aaacaaaaaa tgggtgaaata taaggagatt tatcatatga cacatacatc 120  
 atatattaac aacttatacc aatctacaca aactttgatg cttcaactat tt 172

<210> 31933  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G3

<400> 31933

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aacaccctga agcccggaga tgtcatccag tgccgtgaat gtggctaccg catcctctac 180  
aagaagcgga cccgccggat tgtccaatat gaagcgcgct gaagagtga gacaagggaa 240  
aacactgaag atggttgatc tattactcgc cacattacct atgtaaacag tcttctgggg 300  
gaaatgaaaa tgtcagactt aacgtttgta tgctgtgtgc cttctttgaa cctgagctgt 360  
ataatttgta acgcttgaac tggggactga tttgagaact gagacactgc agcaatatgt 420  
tgatggatcc taagtggcga atctaata gca tgctgtgtat gcc 463

<210> 31934

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G4

<400> 31934

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tgттаacata tctgacctca caacacacct ttagccctta catgttattc actaccgata 180  
atgccactaa cgcacacctc acaagaacct gacacgctac gattccccaa tatcaaactc 240  
cctaatacgt gaactcacgg taaaacactt aagactctac tatcattact atgctcatta 300  
tcattctaca catgtcatgt catttcaata aaaatgtact aacttaacag ctcaataata 360  
tcttctct 368

<210> 31935

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-G5

<400> 31935

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 gtgtgctccc gttgaatgca catgaggacg ccgacgagtt ggtgtcagag gttagcctta 180  
 ctgccatctc acggggctgc cctgctctcc gttcgatatt atacttttgc cagaccatga 240  
 ccaacgctgc tgttgtcgac atgtcgcgga actgcccgga gctgaaggta ttccggttat 300  
 gtataatggg acggcaccag ccggaccatg cgactggnga gcctatggat gaaggattcg 360  
 gtgccatcgt tcagaactgc agcaagctta ccaggetatc caggtccggg caacttactg 420  
 accgggcatt tgagtacatt ggc 443

<210> 31936  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-052-Q1-K1-G6  
 <400> 31936

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 gagctcatct tatgacacct gctttatctt ttaacagatg tgccagccta accaaactgc 120  
 ccaccttaca atgtcttccg cacggatcgg cccagcaagg ccagaccttg gatccaaaat 180  
 gagggacggc gccctgcttc cgaccacgg aatctgtaat ataacgttga aactagaggt 240  
 gttctacttg cgcccggatg ctaccactta tcctacacct gtcatgtcat ttcacaaact 300  
 tggactagag gacagctcaa c 321

<210> 31937  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-052-Q1-K1-G8  
 <400> 31937

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 acatttatca acagatacgc cctgcccacc caaactcaca tatctcacac tatcttccct 120  
 ccacatcttc ccatacatat ccgcatctat aaacccatag gatgacacac ttccaaactt 180

ccatcctaca caataacctca ttttccatcc acatactgog tattcctact tccctaccaa 240  
 ctagaccacg actgctactc ctctcaactt atctaactct gcaagactat actttatccc 300  
 aacagcttcc tatgattcct ctaattacat ccac 334

<210> 31938  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G9

<400> 31938

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 ctgggtttcca gtgggcatcg aaggaggggtg cactggctga agagaacatg cgcgggattt 180  
 gcttcgaggt ctgtgatgtc gttcttcatg ctgatgctat ccacaggggt ggtggccagg 240  
 tcattccaac tgccaggagg gtcatttatg cttctcagct cacagccaag ccaaggctgc 300  
 tggaaccagt ttacctgggtg gagatccagg cccagaaaaa tgcactgggt ggcatatacg 360  
 gtgttctgaa ccagaagaga ggacatgtat tcgaggagat gcaaaggcct ggtaccccg 420  
 tctacaacat caaggctttc cttcctgtca tc 452

<210> 31939  
 <211> 83  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H11

<400> 31939

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<210> 31940  
 <211> 476  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H2

<400> 31940

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gtctccaagg tgacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120  
aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180  
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240  
ttaccaccta gagcaagacg gggatgcagg gtactttgcg aacggtgcaa gccgcgacgt 300  
gaacccacag gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360  
ctcttactga gcagctccca ccaaccaacc gcatgagcag cacttcaagt ggaagaagtc 420  
tgctgtcaca gccttcgcag gcctagtagt aatattccaa ttaacaccct tcatag 476

<210> 31941

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H3

<400> 31941

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gtgtccaagg ggacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120  
aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180  
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240  
ttaccaccta gagcaagact gcgatgcaag gtactttgcg aacggtgcaa gccgcgacgt 300  
gaacccacag gcttctaagt attcgtccat ggacatgcac tcagacagcc cagctcatga 360  
ctcttactga gcagctccca ccaaccaacc 390

<210> 31942

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H4

<400> 31942

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cacatgtctg aaaactgata acaactactg attaactaat gcaccgacaa tgcacattta 120  
acaacgacat tgccaccact taccttaatg cgaactaatg cactacagtg ctaccagcc 180  
cagacacagc tcattagggg catgctcctg gtaagcacag tatactttcc cagcactggg 240  
agccatgcac gatacgacct agatccagac agctaactaa gtctaattgc taacttggct 300

<210> 31943  
<211> 398  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-052-Q1-K1-H6

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aatcacaact actgattaac taagggtgtg tttggaacct ttaacagggt tgtccagcct 120  
taccttaatg tgaattaagg cagaggtgct ttgccagccc aggcaagcta atttggttct 180  
tcctcctggg cagcaaggaa aacttttcct gcaactggtg tgaggcagga gaagtccagg 240  
atccaaacag ctaactaagt ctaatttctt gcttggttag gcaaaagatt gtttgccgaa 300  
tcttccaaac atgctctaag gcagtaatgc ttatctctgg caagaacttc cttntttttt 360  
gaaacgaacc aggcaggaga gctgccgatt atattaat 398

<210> 31944  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H7

<400> 31944  
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tgagtgcacat ctactgaata actaaacata tgttccgaac ctataacaac tttgtacatg 120  
actaccttaa tctgaattat cggaccaggt actccccacc ttagacacgc taattaggtt 180  
cttgctcctg ttcagaaccg aaaactattc ctgatctcgt atagagtcac gataagtcaa 240  
ttatccacac aggttactaa ttatacttta cttgctaagc tatgctaaaa attgacagct 300



cgaatcttgc atacatgctc

320

<210> 31945

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H9

<400> 31945

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agtcaccatt agcaagtgca tctaccatgg cgtcactaat atactatctc ctgactaacc 120

aaactccaac tcttcgtaga gtacagatac acgcacctat tcaacgtcat gaaccactgc 180

aataccacgc taaga 195

<210> 31946

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A10

<400> 31946

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaagaa aaaaaaaaaa 60

aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaattctg ctatcttttt aaaaacccca atttaattac cccctctttc 180

ctaacaaaaa attttcttta aactacccaa aatttaatta aattcatcct gtttaaacaa 240

ctacttcctt aaaaaaacct ttttttacca aaattaaatc ctttcaattt atttcccctt 300

tt 302

<210> 31947

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A11

<400> 31947

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atccaagatg tatctccagt attacatcaa tgagaagggg gacaaggtct acaccaccaa 120  
gaaggagtca cctcttgggg tgccgacgca gtctgtcac ccagctcgct tctcaccaga 180  
tgacaagtac tctcgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240  
gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300  
actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360  
tgctaggcac tactatgaca tctcagcgca ttcaggcact atatgtaatg ctatgtgttt 420  
gacaggtct 429

<210> 31948

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A12

<400> 31948

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gaaggagtca cctcttgggg tgccgacgca gtctgtcac ccagctcgct tctcaccaga 180  
tgacaagtac tctcgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240  
gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300  
actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360  
tgctaggcac tactatgaca tctcagcgca ttcagtcact atatgtaatg ctatgtgttt 420  
gacaggtct 429

<210> 31949

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G12

<400> 31949

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cctgggtcca gtgctcatca ccggcacctg cactgactga agcacaacac gcccggcatac 180  
 tgcttactag gccgtaacac cagcgcttca ttctaccact atacacaccg gcggaacgcc 240  
 aggtcattcc aactggcaga accgccattt atgcctcgta tctcacagcc aaccaacgc 300  
 tgctacaacc atgaaacctc ggagcgatcc aacccccaca aaatgcactg cgtggcatat 360  
 acgctgaaca gaaccagatg agaggacatg cattcgaaga gatgcacagg cacggaaccc 420  
 cgctatacaa c 431

<210> 31950  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D2

<400> 31950  
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 tttgtttcga atggagcatt aaaagaagg gactgatgga cacctatc 168

<210> 31951  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D3

<400> 31951  
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 gattaatcaa agggacaccg taatttcttg gagccaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 240  
 gtggcccttt aaaaaagttc aaaattaaca aaccttaaat tcaaagaaaa aagtttttta 300  
 aaatggaacc aaaattaaaa taaatggacc tcatttaaaa aacttataaa ttggaaa 357

<210> 31952  
 <211> 441  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-D4

<400> 31952

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gcctccacca cgtcgaggac caactcgcg gtgaactact cgaacgagat ccacgacctc 180

tccaccgtgc agagcggctc cgccgtcccc accttgttct acccggacaa gtccatcgcc 240

gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtggtggc gacgttcctt 300

ctggtgttcg tcacctgcgg ggcggcgctc atctacggcg aagacaacag gcgcatctcg 360

cagctggggc agtcggtggc cggcgggctc atcgtcaccg tcatgatcta cgccaccggc 420

cacatctncg gcgcgcacat g 441

<210> 31953

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D6

<400> 31953

cccacgcgtc cgcagactct taggctgagt ccattataga aatgtttatg ccaaaaaaag 60

aaaaaaaaac aaaataaaaa aaaaaataaa caaataacac tcaccctttc tactcgaaca 120

ctctaacatc catctacatg cacatctatc aactcacat aaagctacct aaaatcatta 180

cttagaccct ttcattacta atccgttact cggaaaaccc ttgcctctcc caaatcaatc 240

aacctcaatg acatattgct ttaatcaact 270

<210> 31954

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D7

<400> 31954

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agaaaaaata aaaaaaaaaa aaaaaaaata aaaaaataaa aataaaaaaat aaaataaaaa 120  
 aaatgctatc ctatttttaa gatttttaaaa ttaccattac cttaaattcc taactataat 180  
 tattacatat tcgccttaaa tcaaattcat ttataatttt ttacattct actaacttga 240  
 aaaactatcc tattactaaa ttata 265

<210> 31955  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E12

<400> 31955

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 gtcacgcact ggagggggta aagtccgaca tcaatggcga agcatcatcc tgatctcatc 120  
 atgtgccgga agcagcctgg catcgcgatt ggccgccttt gcgagaaatg tgatggcaag 180  
 tgtgttgtct gcgactcgta cgtgcgccc tgtacgcttg tccgggtctg cgacgagtgc 240  
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 tactactgca aagagtgcac cc 322

<210> 31956  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-E3

<400> 31956

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 tgtcgaaaag aggtcgcttg gcaggacgat tgattgataa ccgcagcaga gggtagcatg 180  
 tagtccctct agttgaggat ccagaggcc atcctgaagt cctcgtggat ggggatcgga 240  
 ggggctactc tgacattcgt ggggttcagc aacgtcgggg ctaccctgac acccatctgc 300  
 ttgaggaacc taggggctac cctggtgttc gtgtggtcga ccataggggc tatcctggca 360

gtcgtggngt tgatgaacgc anggcctatc ctgagctcca tcaaggctca c 411

<210> 31957  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E5

<400> 31957

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gtaaccctct gccaatgtct acgaccgaca tcaacacctc cccatcatac ttatctcatc 120  
atgtccccta accagactat catctcataa cccacacctc gcggtaccatg taatccctat 180  
agtttagtat cccactcgta cttccgcaca tctactctat tccgatacta cgacctactc 240  
taacattctt cgttccaagc aacgtctgtg atcccctgac aactatttat ctcaaact 300  
tactacttac cctagtgcac ccatcatcaa acata 335

<210> 31958  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-052-Q1-K1-E6

<400> 31958

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tcgagtgcct tccggagttt tcaatgggcc tgccgggggtg cgcactcgga cactcgcgcg 180  
atgntgcggt gctttcttcc ggctgctgg acgcctactc ttccggcttt gaatccgatt 240  
ccaggnnngt tggcgggctc gttatatgca gaaagagata acctctatcc cgagggcccc 300  
cgcgcggtgcg tctttcggac tttcctaact gtcgctcgtc ttgccagcca acgtcaccgg 360  
cttcgggaga atcttaacgc cgatttcctt ttcgggggtga ctgcgcgttg agtcgcgcta 420  
tc 422

<210> 31959  
<211> 191

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E7

<400> 31959

cggacacttt cgtccactct ttcgcccact tttccagacc cactcctccg gccacacgtt 60  
 gtgccactct tactgcgact cctgcgtgcc gacacttcca aggtgcatct tgccatgtgc 120  
 atgatcttca actccaccaa cgtcacacaa gtgttctctc ttatcaacag ctaaattctac 180  
 ctcatgtact c 191

<210> 31960  
 <211> 189  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E8

<400> 31960

cccacgcgtc cgaaaaataa ataaacatat taaaactaaa agaaaaatga gaaaaaatcc 60  
 tgggacaatc taaaatagta ccacacaaca aacccaatcc actgcatcat tattgcaaag 120  
 cgccagcagt ccttcaccat aatacaattt tactcggcta ataacggcac acttggtgta 180  
 ttactacat 189

<210> 31961  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F1

<400> 31961

ggttgcgcca cacccttcgg aagcaagcca gtttgcctta gggctgactg atggtggtgt 60  
 gtttgtgttg gggccttttg aatcgagag aaaatgggga aatcctccac cagtagagaa 120  
 tgggtctgct agcaacttgt ccacaccgcc tcctaattga gtttcaagtt ctgaccaacc 180  
 agaaagatga ttaagaagtt ggaactggta gatttttcgt ggcacgagtc taaccaagaa 240  
 ggtatccttc aaagttaatg aaacaaattg gaacttcttt atttaaattc cttggcatga 300  
 tatgtataga acatttattt ataacgtatt gatgcaattt aggagtttga caataagctg 360

ccatgattta ctcagaaata tgatcaatat aatcatgtga acatagaata tagtgtatgt 420  
 ttttgccaac agattaattt ctcttttac 449

<210> 31962  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F12

<400> 31962

accacgcgtc cgaaaaaaaa aaaaaaaaaat ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 aggaaaaaaaa aaaaaggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag agttagaagc tataaagaac 180  
 taaatctaaa caccacaact tcgcaacact aaatctttaa aaaatgccca caaaaataaa 240  
 atcaaaatca aagggtttata aaatactagg atgaataaaa atcgggggagc acccaacaaa 300  
 aatggaaaac taaaaaatac cattaaaa 328

<210> 31963  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F2

<400> 31963

ccgtgtggtt cgttcttcca ggcctggcac tactccacat ttggttctgg aggaaagagt 60  
 ggcaagggtc gatggtcac tcgatggtag cacggcccaa cccgagccac tgctcgtgat 120  
 ggcaaaccgc cagcgggtcct tggccggcgt acagttttac tcggctaaaa cgggccccct 180  
 tgggtgtatta ccagattacc aacaaccttc gacgcagccc cagaattcac atcccaaccg 240  
 tgtgtaaaagg ttgtctgatc cc 262

<210> 31964  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F4



<400> 31964

gttcgacgca cgcgtcctac cgtacgcacc tagcttctaa tcataaatte gttccacacc 60

tacctacgtc cctcgtccga gctttaacat cttgcgcgca cccacaaaaa cttactact 120

agccatgatc acagatctat atgctctcat caaatatggc ttaataatte acttaaaaca 180

tcttaccctc taataaaatt accagtatat tt 212

<210> 31965

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-F5

<400> 31965

cccacgcgtc cggtcggttc acttctccag gtaaggaaag ggttcgtact catggcgccg 60

gcgcagccaa agtcgggcct cttcgttggc atcaacaagg gtcatgtcgt caccaagcgc 120

gagctgcctc cccgcccgtg ccaccgcaag gggaaatcaa cgaagagggt gtctatggtc 180

aggggcctga tcagagaggt tgctgggttt gtccttatg agaagcgtat cactgagctt 240

ctgaagggtg gcaaggacaa gcgtgccctg aagcttgcta agagaaagct tggaactcac 300

aagagggcaa aggacgaaga gagaggagat ggcgggcgtg ctcangaaga tgaggtcggc 360

ttgtacgcac actgacaaga ngaaatagag agcatttaag ttcattggagc ctgcagagaa 420

tatgttcagt gtctgatttt catacatgta g 451

<210> 31966

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D12

<400> 31966

ccaacgacta ctaacacgaa accgagttag tattcgttaa gctatattga tcatttgatg 60

ggtctcattc gaccgtggaa acctctatct tatactacat ccaccaaaaca atatactgaa 120

cacggatctg catatgacta agggcacgac aatggcgcac cggacaccgt gcgatgtgcg 180

gtgctcttcc ggccgctgga ccctacctac ggctgaaccg attccataga tggccgaccg 240  
 ttaagcacac atgataactc ttcctgagggc ccctatcggc gtatccagac ttactaacgt 300  
 ggccgtctgt ctccacgtcc cggctcggga aatcttaacc cgactccctt taatgtgact 360  
 cgcgtgatcg cgctatctgc caggtttcct caatccctta agatcggctt acatatgtgc 420  
 aagtgccatt cacatggaac c 441

<210> 31967  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-052-Q1-K1-F8

<400> 31967  
 agcgtacgcg cctagcgacc agcacagatt cgttccacgc ctacctcggg ccctcgccccg 60  
 tgctctcaga tctcgcgcgc gccccgcaaa gggtaacttt gagccatggg cacagttgtg 120  
 gatgctccag cagttgtggc tgaagaggtc actgaaaaca tggtgggtgg taagaaagtt 180  
 acagttgtat ttgttctagg tggctcctgga agtggaaaag gcacacagtg tgccaacatt 240  
 gtggaacact ttggattcac ccattctagt gctggagatc ttttgcgtgc agagattaaa 300  
 tctggctctg agaatggaac catgattgaa aacatgataa aggagggaaa gattgttcca 360  
 tcagagggtga cctataaagc tgtgcaggag ggcaatgata anaatgaaaa tgacaattcc 420  
 tgatcgaacg gatttcaagg aatg 444

<210> 31968  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G10

<400> 31968  
 cgaagagaaa agagaagaac ctctatccgg aagcgaaaag gaccagaaga aaccagaggc 60  
 gactccaggt tcgtgggcga tgctgcgcgc gggaggtagg cagctccttg ccccggggct 120  
 ccggcggctc ggtctgggca ccggcgccgc cggtagagtg ggcccgggcg ccgcggcggc 180  
 ggtgatgagg gcgtaccacg agcgggtggt ggaccactac aacaaccgc ggaacgtcgg 240

ttccttcgac aaggaggacc ccaacgtcgg tactgggctg gtcggcgcg cggcctgcgg 300  
cgacgtcatg aagttgcaga tccgcgtcga cgaggactcc ggtaaaatcg tcgacgcctg 360  
cttcaagacc tttggctgcg gctccgccat agcgtcctcg tccgtcgcta ctgaatgggt 420  
gaagggaaaa ccaatggatg aagtcttgac aatc 454

<210> 31969  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B2

<400> 31969

cggacgcgtg ggccgcgacc gggagagagt cagagagaga cgcccgctc cagatcgctc 60  
ggcggcgatg ggggcgtcgg tctttccagc gctgctgctg gccgtagcgg cggtgcttct 120  
cctaccggtg gcagaggccg tgtggctcga gctcccgccg tctgggacca agtgcgcttc 180  
cgaggagatc cagcccaacg tcgtagtgtc cgccgactac gctatcatgt acgagtccca 240  
ccccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300  
tcataatgaa aatgcttcaa cgggccagtt tgcattcacc acttcagaag ctggaaacta 360  
ccttgcatgt gtctggatag acagcgtgga caaaggatca ggaacatctc taaatcttga 420  
ttg 423

<210> 31970  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B3

<400> 31970

accaatcctt ccccttaca ctggatagag ttagagctag acttccaact ccagatcgct 60  
cgtaccctat gggggcatat gactttccag ctctacttct gctcatatca gcactccttc 120  
tcctaccggt aacagatgcc ccgtcgctcg aactctcgcc atctgacacc aacttcctct 180  
ccgatcagat ccatcccaac gtcctattgc atcccgacta cgctatcatc tacgattccc 240  
acccaccta tcatcccacc ttacgccttc aagtaataca tctaccatat tgccacatac 300

tgtgcactca tattataaat acacttcacac agtcctgtta gcattcacca cttcagaagc 360  
tctaaactac cttgcatgtt tctggatata 390

<210> 31971  
<211> 412  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-052-Q1-K1-B4

<400> 31971

cccacgcgtc cgcccacgcg tccgcgattt cattcaagaa taaacttaac atgcgttaat 60  
gatgaaactg gagtggttga cccgaagaag ttcagcgttc tgggtaactg gcagcgtgat 120  
tactcaatgg aatacatcct aacccatctc aagaaagaga tgacatcgcc acagaaccgc 180  
aagctagttc agcctccgga agggacattc ttctaaagat ggcagcaact catgtccatc 240  
catggtgact cggaaacagc tttcgcacct ggttcctata ntttatatat ttagtctgat 300  
ctcccagtta tctgtaaacc accgagatcg agtgcaagca gacttggttg atttacaatt 360  
tgcccgggtg gtgctaataa tatgggatga aacgggtgcc ggtttggtg ct 412

<210> 31972  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B5

<400> 31972

gggaaacttg gctatggaaa gagtgcaact ggaaatagca tccttggagg ggaagcatgg 60  
gtatcagaat attcacattc tgggtgttact aatacttgtc agctgggaag cactaccctg 120  
atggactgcc ggaccatcaa tggtattgat acaccagggt tatttgatat gagcattgca 180  
tcagacgatg ctggtaaaga gattgttaaa tgtatgaaca tggctaaaga tgggatacat 240  
gcagttctaa tgggttttttag tggcacatct cggttttctc gagaggatgc aagtacaatt 300  
gagactatta aggtcttttt tggagaaaag attgttgacc acatggtttt agtttttact 360  
tatggtgatc tagttggtga atctaagttg aagaacatgc tcaatgatgc gccagagtat 420

ttgcagaatg ttgatgagct atgccaaaa

449

<210> 31973

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B8

<400> 31973

gtcaaggcca agatccagga caaggagggc atgcctccag accagcagcg gctcatttgg 60

gccggcaagc agctcgagga cgggcgacg ctggccgact acaacattca gaaggagagc 120

accctccact tgggtgctgcg tctcaggggc ggcacgcaga tcttcgtgaa gactctgacc 180

ggcaagacta tcacccttga ggtcgagtct tctgatacca ttgataatgt caaggccaag 240

atccaggaca aggagggcat cctccggac cagcatcggc tcatttttgc cggcaagcag 300

ctcgaagacg ggcgacgct ggccgactac aacattcaga aggagagcac cctccacttg 360

gtgctgcgtc tcaaggggtgg catgcagatc ttcgtgaaga cacttactgg caagacgatc 420

a 421

<210> 31974

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C1

<400> 31974

cgttcgaagc attcgagcgg acaagaatga aggccttctt cagctacctt ttgacaaagc 60

cctcctcgct gatccatcgt tccgcccact tgttgacaaa tacgcagcgg acgaggacgc 120

tttctttgct gactacgccg aagcccacct gaagctttca gaattgggat ttgctgaggc 180

gtaacgaacc agaagagtgt ggtggctgtc gccggccggc cttgtgtttt tgttgtctgc 240

ttttctcttg aacgaagatg tgatgaactc agctgaagat gtagtgtgta tgttgtcatg 300

gtttatTTTT ctatTTTatt tatctatcta taatatctat cggagaaaaa aaaattaata 360

aaatctTTTT ttaactTTTT ttatatcttg tattataata gtaatttctt tttttttatt 420

aaatataa 428

<210> 31975  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C11

<400> 31975

gtagtcatat ggctgctggt gtgaaggcta aacctaaaac tgaaccaccg cctgacagag 60  
cggaaccaa tagggaagca gttgggccag cacagttgac tggtaccttg ttatctaata 120  
ctgaagaaag tgcagacaat gtggttggtg atatcgaaag accacataac aggcagatta 180  
atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240  
tcgttggaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgttg 300  
atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360  
catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420  
ttcaggggagc acagaatcgc caaggacagc ag 452

<210> 31976  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C12

<400> 31976

gtagtcatat ggctgctgct gtgaatgctt tacctaaaac tgaaccaccg cctgacagag 60  
gggaaccaa taggggagca gttgggccag cacagttgac tggtaccttg ttatctaata 120  
ctgaagaaag tgcagacaat gtggttggtg atatcgaaag accacataac aggcagatta 180  
atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240  
tcgttggaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgttg 300  
atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360  
catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420  
ttcaaggagc acag 434

<210> 31977

<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C2

<400> 31977

gtcgtcacca gcaggggtgtc ccggccctct ctagtttcta ccccggtccc caacattggc 60  
gtgatgctgc tgcgcatgta gccagcgct cccccctcgg cttcaccggc ggcggcggca 120  
acgacggtga aaactacatc ggggtgctagc tccgacggtg gtgcgtgccc tgttgacgat 180  
agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240  
atctttggca ggtctccatc atcctccgtg ggagagaaga tggtaatgga gtgcgtgtgt 300  
atgtatgtgt atgcccaggg cgcgcgcgcg cggtctggg cgagtcacag tagagatgca 360  
atatcatgta tccagtatct tttctacaac ac 392

<210> 31978  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C3

<400> 31978

gaaaggtttt catgatatgg cagaggcaat aaataacgat tgtcaaaaat ctttcctttt 60  
tctttcattt gaaaagtgca taaaaattat attgccatt ccattttaat tatattcttt 120  
tttcttaatg ttaataaaaa aaagaagaaa attctggttt tttctttcca aaattcgata 180  
taggctgaaa gacaatcaga tcttttttct cttcagcggg cagttccata tagaatttgt 240  
tagaataaaa caagcgggtt aaaaaaaaaa actctttttt tttatttatc cacaaagcaa 300  
aaaaggttct tatcaaacc acaataaaat gggaaagaaa gataaagtaa gtagacctga 360  
ccccttgaat aatgcctcta tctgctattc tgatatataa attcgatgtg gatgaaattg 420  
gtg 423

<210> 31979  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C4

<400> 31979

gcccgggagg cttctgggtg ctctccggcc cgcccgtaaa ctacgagaac cgctggcacg 60  
gctggaacac gaccgagcag ggcgagaagg ccgacctgga caggctcaag aagatgctgg 120  
ccagcatgtg cttcaagctc tacagcatga aggggggacat cgccgtgtgg cagaagtccg 180  
ccgacgcctg ctacgacaag ctacccccgg tcaccacgcc cgccaagtgc gacgacagcg 240  
tcgaccccca cgccgtctgg tacgtgcccc tgcgctcctg cgtcacgggt cccagcccca 300  
agtacaggaa gctgggggtc aacgccacgc cca 333

<210> 31980

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-C5

<400> 31980

tcccactcgt ccaccactc ttccacnaat ttgtaaaata cctccttatt gtacgatttc 60  
gcaaattcat aaacattatc attccaattc catatcaaac atattctctc ctctcaacat 120  
taataacaaa tataacaaaa ttctcattct atctttccaa aactctatat atcctgaaac 180  
acaatcacat cttttttatc ttcaccctc atttccatat atacattgtt acaatcaaac 240  
attctaataa caaaacacaa ctctatttat ttatttatcc actactcaaa aaattttctt 300  
attaaaccaa ctataaaatc 320

<210> 31981

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C6

<400> 31981

cccacgcgtt cggacgagtt caagaaggag gagaagcagc acaagcacgg gcagcacctg 60  
ggcgaggccc gcaccattgc cgactgcgcc ttagcactct acgagaagca ccaagctaaa 120  
aacgaccctg aacactcgca ccgacacaag atcgaagaag aagtcccagc ggctgctgcc 180



ctcggcttca ggggctttgc ctttcacgag caccactaga aga

223

<210> 31982  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C9

<400> 31982

cccacgcgtc cggggcggcgc cggcgtgctt gtgatctcaa cccaagtcgt gcctccgctc 60  
cggtcacccg tcgggtccacg caaccatgtc gaggaggaag accagggagc ccaaggagga 120  
gaacgtcacc cttggacca ctgtccgtga aggagagtat gtctttggtg tcgctcacat 180  
ctttgcatcc ttcaatgaca ctttcattca tatcactgat ttgtctggga gggaaactct 240  
ggttcggatc accggtggca tgaaggtgaa ggctgaccgt gatgagtcgt caccttacgc 300  
tgctatgctt gctgctcaag acgtcgaca gcgctgcaag gagcttggca ttactgcact 360  
gcacattaag cttcgtgcc a cggaggcaa caagaccaag accccaggac ctggtgcccc 420  
gtctgccctc aaggcgcttg ctcgttccgg gatgaaa 457

<210> 31983  
<211> 182  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D1

<400> 31983

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa attaaaaata acaagacctc 60  
tggttacatc cggggtcacg ctacctcgta tcctattcta taatatcacc taatttcact 120  
ccaaaattca tccacttaca cctcctttta caactaaaac cctgacatta cccaacttat 180  
tc 182

<210> 31984  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D10

<400> 31984

gggtcgaccg cgacgcgtcc gccacgcgt ccgtagatag tgaactgaca atccacatga 60  
caggtgttaa gtatgaactt ggccctgctg attccgcagg tgctaaccag gagttgatca 120  
ttgatggcaa gcatggcgaa gaacctgatc ctgatgatac tcgtcaagat gttttaaaat 180  
ctggcaatgg gacagatatg ataacagaac agagtggaaa ttccatgggt ctgaaagctg 240  
aacctgatcc tgacgatcat gt 262

<210> 31985

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B12

<400> 31985

ctgtattgca ggatgttgcg ctaatactgt ggtcgatttg cgatgtttgt tctgtatcgg 60  
atgatgtttc cttagtaagc tgcttgaata gatcatgctc aatgtaccat tatttacact 120  
ggagactaga caaaaacaat cgtttgat 148

<210> 31986

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H11

<400> 31986

cggacgcgtg ggccgacgcg tgggccagaa gagcttgacg ttactgagag tgtgtgtgag 60  
agagaggatg ggtggcagcg gcagggctgc tctgctgctg gccctggtgg tgggtggccgt 120  
gagcctggcc gtggagatcc aggccgacgt cgggtacggt tacggcggcg ggtacacccc 180  
gacgccgacg ccggccaccc cgaccccgaa gcccgagaag cccccacca aggggccgaa 240  
gccggacaag ccgcccgaag agcacaagcc gcccaaggag caccggccca agccggagaa 300  
gccgccaag gagcacaagc cgacgccgtc cactacacc ccgagcccca aaccacgcc 360  
gccgacgtac actcccaccc cgacgcccc caagccgacg ccc 403

<210> 31987  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H12

<400> 31987

ctcggactga tgattggttt tgggtgtgga gaatttgatg gcaactcctc tggtatttgt 60  
gggaagatga gatgtagttt attggtgaca acaaaaaggt caagggtata aaatccatct 120  
gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaatt tactcaaagc 180  
aatggttagt gataggtgcg ccagttctag gaaaaaatgt actagcgggtg caacggttct 240  
aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaatctac 300  
aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360  
atcacttttc ctaggatgga cgctctagca caagtagata aagtg 405

<210> 31988  
<211> 505  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H3

<400> 31988

tctaaaaaaaa ataaaaaaaa aaatataaaa aaataaaaaa aaaaataaaa aaaaaataaa 60  
aaaaaaaaaa gggtaatat taaaattatg gaaaataatt tatttataat ataatttttt 120  
aaattttatt tttatttata ttcaattata ttattatttt aaattgttta ttatttttaa 180  
atttctattc tttttaattt ttatttttct ttttaattata ttttttttat atttttattt 240  
cttttttaat ttttaatttt ttttcctttt tttactttct tttccttttt attcctttta 300  
tttttttatt tctataattt tttttataat ttttcctttt cttatttttt tttctttttt 360  
ttttttatta tttttttata ttttttttat ttttttattt attatttttt ttttttattt 420  
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<210> 31989  
<211> 223

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-H6  
  
 <400> 31989  
  
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 cccgtgtgaa catgaactgt agcctggagt agaggcaaac accgtgggtc gaccaactta 120  
 atagccctaa tggctggatt ggtaatgaga taataatatc gcgcctatac tacaactatc 180  
 tctacattta tgactagatt gctgactata ggactacagg gga 223

<210> 31990  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-H9  
  
 <400> 31990  
  
 tcgcccacgc gtacgccatt actagtcatt ggcaacaaaa tagacaagcc tgaaggtctc 60  
 cctaaacaaa ccttcacaga aataatgggc ctaaagacga tcaactgaccg agaagtggca 120  
 tgcttcatga catcatgcat gaactcgacc aacattgatt ctgtcattga ctggctgggtg 180  
 aagaactcga aaaagaagaa ttgaacttaa atctgtacta gctattaaag cgcacgccaa 240  
 tctctctatt tttgcatgtc tcatagcatt ggagctgtaa atcatgcaag aggtattaat 300  
 cagggatggt gtgttcataa ttttgttaac ctggtttagc agtatgttgg tggacagcgt 360  
 ctggtattga gcacgcccgt gctctgaggg tgccctctgt gttc 404

<210> 31991  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-052-Q1-K1-A1  
  
 <400> 31991  
  
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 ggccctctgc ctagccgccg gagaagcgcc gctcgctcag gaggacagcc atggcgccgg 120

agccggagga tgatattatg aacgagaaga atccccgccc gctcgacgag gatgacatcg 180  
 cgctcctcaa aacctatgga ctggggccgt attcgaccag cattaagaag gtcgagaagg 240  
 agatcaagga aatggccaag aaaatcaacg acctctgtgg gataaaggag tctgatacag 300  
 ggctggctcc acctagccag tgggatttgg tttcagataa gcagatgatg cangaagaac 360  
 aaccgttaca agtagcaaga tgtacaaaga ttataagccc taatacggat gatgccaaat 420  
 atgttataaa tgtaaaac 438

<210> 31992

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A11

<400> 31992

gcgcgcaccg ccgtcggccc accgcttcag ttggcagttg cgacttgcca gtggctccaa 60  
 caaggcaaca caatccggcg gcaccaaccc agcgcggcgc caccggcgac ccgtaccccc 120  
 ttccccggag agcgatggcg acggagctga cggcggcgca gctgcgcgcg tacgacggca 180  
 ccgaccgcgc caagcccata tacgtctccg tccggggcaa ggtctacgac gtcacctccg 240  
 gccgcggctt ctacggcccc ggcggcgcct acgcgcgttt cgcggggcgc gaggccagcc 300  
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtctc cggagacctc tccgggctca 360  
 ccgacaagga gctcggcgtc ctgcgccgact gggagaccaa gttccaggcc aagtaccccc 420  
 tcgtggcccc actcgccgcc gacgcctgaa ctccg 455

<210> 31993

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A12

<400> 31993

cgcacgcgtg cgagccaacc gcttcagttt tcagatgcga cttgttagtg gctccaacag 60  
 ggcaacacaa tccagcggca ccaaccacgc ggggctccac cggcgaccgc taccctcttc 120  
 cacgcagagc gatggctact gagctgaccg cgacacaact actcgcgtac tacggcaccg 180

acccgtccaa gcccatctac gtctccgacc gcggcaaggt ctacgacgtc acctccgacc 240  
 gctgcttcta cggccccatc ggcgcttacg tcgtcttacc cgcccgcgag gacagccgcg 300  
 ccctcggcta caactccaaa tacaatgccg accttctcag acacctatcc ggggtca 357

<210> 31994  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A3

<400> 31994

taccggggtc gaccgacgcg tccgcgcaga ccagcagctg atcgctcact cttgcagctc 60  
 gatcattctt tagctgctct agctgtagcc tctaggccta gctagtagct agccactcgg 120  
 tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccga 180  
 ccgtcgtggc gaccgaggaa gcgccggtgg tggagacccc ggctccgccc gccgtcgtgc 240  
 ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300  
 ccgagccagc tgccgtcgct gagcccaggg cggtccccgt ggccggcgat gaagagacgc 360  
 caaaggatga agagacggca aacgat 386

<210> 31995  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A4

<400> 31995

cccacgcgtc cgcactcccg ccctacgcc ttacaaaccc acaccaaacc cactcccac 60  
 gcctccgacg tgcacctga ccccaagcc tacgacacct aatccgacct cgccgacgta 120  
 cactccaagc cccaaacctc cgacgccccaa gccgaccca ccgacgtaca ccccttcccc 180  
 caagccttcg acacctaacg cgaccccgtc tacgtacact ccaatcccta agccaccggc 240  
 taccaagcct tccacgcca agccgacccc gacaacgtac accccttcgt caaagcctac 300  
 gacaccaag ccgaccccggt cgacgtacac acctataacc aagcctacga cgcccaatcc 360  
 gaccccgta acgtacac 378

<210> 31996  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A5

<400> 31996

actcgtccga aaaataaaaa aaaaaattta aaaaaaatTTt taaaaaaaaa aaataaaaagg 60  
aaaatatagg gatattttaa aaaaaaaaca atcaatcaaa aaaggcctcc ctcttttcat 120  
gttccaagtt tacttactct tcctttccac actctttctc tcctttactc tcatctcatt 180  
tcacttctct gaccctcttt tttcaacctc ctctcttcta aaactctgtt tttccccatc 240  
ttaatccctc tgctcccatc caccttttct ccactttacc taatcactaa tagcccttta 300  
cccttcgctt tcctaaacat tttcacatcc tatttgccaa atggatcact ccctttaaac 360  
gacctttacc 370

<210> 31997  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A8

<400> 31997

cggacgcgtg ggctagagtt cagtttctga gattgggcaa cggcagcggg tcagctcggg 60  
aagtttgtgc tgggatgcc a gtttatccct tctagtctat tacagaaatg ttgttcggag 120  
ctgagtctat tataaacatc ttggtctgag tttattgttg agtggtgcc a gtttttttca 180  
atatacatTTt atcttaaaaa cagcgttact gatgtttttt tgtctaaagt taatgagttt 240  
gcaatggttc tgagtct 257

<210> 31998  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G9

<400> 31998

cccaccaata gagccgtgta ctataatgat agatctcctc cggctgaatt gaggcgagac 60  
atgccggtgg gaactgaagc tgccagctac cgcctccccg tttcagctcc ggacgctgct 120  
gcggcagctg cagccaccgc cgcgacacag gcccctcctg gatatgttct tgcccagatg 180  
catgcgctc cgccaccgca gcagcctcca ccacagcagc aaccacaaca gccagctcct 240  
cagcagattg ttgctgctgg gaatcaacat ttcattccaca accctgccac tggcaccttt 300  
attccaatcc aatcctatta ccaccatcct gtccatcagc aggcacccca gaccatgcaa 360  
aggcagcaac aggcacctac gttcgaccca aatacagga 400

<210> 31999

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A9

<400> 31999

aggacgcgtg gtcggcgacg gttataacct gggcatcgcc gagcagagcg gcatctccgg 60  
gggcggttc tgcttcggca tgctcccgcc cacgctcgtc gggtagaag tcaacgccga 120  
cattctgctc gatgtttact ggaaccagct ggacggcgga tgcaagcccg tcgtaggagc 180  
acaagacgtg gacgccgggc ccaccgaagt cgtcgaggat gaggacgtca cgtgacaccg 240  
atactcgac gccaccatgt ggcaccttct tctgcgacac gccagtcac agcaggtgcc 300  
gatcggctac tactacgcat ggaatgaaga cctcgtgaag ccgccaacg gcgtgccaca 360  
cacaaggaaa g 371

<210> 32000

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B11

<400> 32000

cccacgcgtc cgcccacgcg tccgattgtc gacgatcttg tgtccatcga cactctaattg 60  
gaggaccacc ttacgaaga gccatcaat gagtacgtcc agagttgcta cattgtggct 120  
ttcaacaaga tctagagttc agtttctgag attgggcaac ggcagcggct catctcgtca 180



agtttgtgct gggatgccag tttatccctt ctagtctatt acagaaatgt tgttcggagc 240  
tgagtctatt ataaacatct tggctctgagt ttattgttga gtggtgccag tttttttcaa 300  
tatacattta tcttaaaaac agcggtagctg atgtcttttt gtctaaaata acaaagcatt 360  
aggctacctt aaaagagtaa tagatactct cgccatttac tctcacttgg ttgaatttct 420  
taaatta 427

<210> 32001  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-051-Q1-K1-F1

<400> 32001

cccacgcgtc cgagcccacc gaattccctg cgattcctct cccctcgcct cctcgtctcg 60  
gcctagggga tcgtcggaga ggaatcgcaa agagggccgt ctcacccgag ttaaggaagc 120  
catggagcac aaggaggctg ggtgccaggc ccccgaggga cccatcctct gcatcaataa 180  
ctgtggcttc ttccggcagcg cggcgaccat gaacatgtgc tctaagtgcc acaaggagat 240  
gataacgaag caggatcagg ccaagctggc tgccnctct atcgacagca tcgtgaacgg 300  
cagcgacgcc gtcattggagc cggttgttgc tggcagcaac acggtagtag cttgtgcca 360  
agtcgagttg caaacaatga acgtgcagc 389

<210> 32002  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F10

<400> 32002

ccaagatcca ggacaaggag ggcattccac cggaccagca gcgcctcatc tgtggccggc 60  
aggcagctgg aggatggccg caccctggcg gactacaaca tccagaagga gagcaccctc 120  
cacctggtgc tccgcctcag gggtagcatg cagatttttg tgaagacatt gactggcaag 180  
accatcacct tggaggtgga gagctctgac accattgaca atgtgaaggc caagatccag 240  
gacaaggagg gcattcccc agaccagcag cgtctgatct ttgctggcaa gcagctggag 300

gatggtcgca ccctcgcgga ctacaacatc cagaaggaga gtacccttca ccttgttctc 360  
 cgcctcaggg gtggtatgca gatctttgtg aagaccc 397

<210> 32003  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F2

<400> 32003

cggacgcgtg ggatttcattg tgattcagtg aacagaatat ggattccatg attgctatag 60  
 tgatccgtgt ggattgatga agagtgagct gataatggaa ttattcttct ataaatagga 120  
 aacttaagat tcaaattgctc cggaatggaa atgaggggaat gtccacatta cccggattta 180  
 gtcagatcca attcgaggga ttatgtagat tcattaatca aggcttggca gaagaacttg 240  
 ataagtttcc cacaattaaa gatccagatc acgaaattgc atttcaatta tgtgcgaaag 300  
 gatatcaatt gctagaaccc tggataaaaag aaaggaatgc tgtgtatgaa ttactcacct 360  
 attcattcga attatatgta ttcgctagat taaattttgg tttccatgtg 410

<210> 32004  
 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-051-Q1-K1-F4

<400> 32004

gggaggttca tatatgcac actgctgcgt cttctcgtac tgaagtttgt cctgagcatg 60  
 tcagcgggca aggatgtgct tgcccttgct tcaattgagg tggacctctc cagcatcgag 120  
 ccagggacca cagtgaccgt gaagtggcgt ggaaagccag tcttcatcag gcgtcggaca 180  
 gaggatgaca tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca cccagagcag 240  
 gatgcagagc gtgtgaagaa ccctgagtgg ctggtggtca ttggcgtgtg cacgcacctc 300  
 ggctgcattc cactacctaa ttgccgagac tttggcggct ggttctgccc atgccatggt 360  
 tcccactatg acatttccgg gaggatccgc aagggccctg cgccgttcaa cctcgaggtc 420

cctacctaca ngttcttgga gggagacaaa ctgctcgtag gcttaaaa 468

<210> 32005  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F5

<400> 32005

cccacgcgtc cgggtgagtga gccggtggcc atggttttct atactctgct atgcgtctcc 60  
gtcgccggcg ttcttttcgt gtcccaatct ggaaggacga cggacggtac ggtggctggt 120  
ttagctatag aaaaaaaaaa aaaaaggtag ggccgcgtgg tggcgggtgct aatatgctta 180  
gccacgcgcg gttgatcttt gagaagttaa gcgtgtacga aatgacagct ttgtacgtgt 240  
actgtctgct ggagtgtgct gtgtatctgg tctggatccg atcggcctaa tgtatgaaaa 300  
aaaggatggt tacgtactaa atggaaaatc attttttcc 339

<210> 32006  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F7

<400> 32006

gttcccacca aaccagcggc accacccatg gtttcggcgg cggcgagatc cgggctccgg 60  
gcgctggcgg tgcgcgccgc cccgttgagg cgccgcattgt cctcctccgt ccacgacgac 120  
gcctatgaga cggccaagtg ggagaagatc acctacgccg ggatcgtgac ctgcaccctc 180  
ctggcggcgt acaacctgtc caagggccac cccacttcg atgagccgcc ggcgtacccc 240  
tatcttcaca tccgcaacaa ggagttccca tggggccctg atggcttggt tgagacgaag 300  
gaccaccact gagccctgat tagcacacct tcaggagctg gtgcacgctt aaaagagtta 360  
tatggttggt tcagtgattt tccttttccc ttgagaccta tttgctgcaa catgaaataa 420  
gaatgaccaa actcttgat tgacagtga gttttaact 459

<210> 32007  
<211> 459  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F8

<400> 32007

cataggtcag ttttgggctg atctatgctg gcacccata tcagatttcc aggagaggac 60  
taggttattg atcactgtgt tttcatgtgg cattgcacat ttgtgggtcaa ctagggaaac 120  
agattggtgc cgcattgtac tttcatggga cccccctct gaaagagttg agaagtgtac 180  
agtcacggc agtcacttag ttagcgcttt gtgctaggag gttgtgacca gtggagctct 240  
at ttggcata ttggaatttg gaatccggct acattgttgt acagaccttt gattgacgta 300  
gcttgagag gatgtaggag tgaacagggc catgctttga agcgaacaag ttataggcat 360  
atgggagctg gggatcatcc gagacagatg ccgctcgaag tgtcactgta cttgttgtgt 420  
ggtatcccta tagcaccaa gtagatggag atgtgcttt 459

<210> 32008

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F9

<400> 32008

ctcccacgcc caagccgacc ccgccaacgt acacccttc gccaaagcct ccgcaccaa 60  
gccgaccccg ccgacgtaca ccccttctcc caagcctccg acgccaagc cgaccccgcc 120  
gacgtacact ccaagcccca agcctccac acaccgacg cccaagccga cccacccgac 180  
gtacaccct tccccaaagc cttcgacgcc caagccgacc ccaccgacgt acacccttc 240  
cccaaagcct tcgacacca agccgacccc accgacgtac actccacac cgaagccgcc 300  
ggccaccaag ccgaccacct aactccgac gccgccggtg tctcacacc tcagcccgcc 360  
gccaccatac tactagaaag cgatgcctac cataccacac 400

<210> 32009

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G1

<400> 32009

gggcacttat gattttat tt acttgccaat tgattttaag aataaatgta atgtcggcta 60

tgcttggatc aacatgacca atcctcagca tatcattccg ttttatcaga gttttaatgg 120

taaaaagtgg gagaagttta acagtgagaa ggtggcatca cttgcttatg ccagaatcca 180

agggaaaaca gccctgattg ctcat tcca gaactctagt ttgatgaatg aggacaaacg 240

ctgccgtccc atacttttcc actcagatgg tctaata gca ggagatcagg aacctttccc 300

cacgggttca aacatccgag ccaggtctgg gagatcccgg acttcttcgg gtgaagaaaa 360

tcaccatgac atccagacag tcttgaccaa cggtgacact tcttccaatg gagctgacaa 420

ttcaggtccc accaaagata ctgagtag 448

<210> 32010

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G11

<400> 32010

accacacac tctcatcgc acaatctaca cgactcaact gaacagatcc atcgactcca 60

caccgacgcc actgttactt gggacgtac tactactact cccctcctcg ctctcctcc 120

tgctacgctc gcgaggcaag cgcacggcta ccccatacc catcgaaact gccgatgctc 180

atcaccacga catgactcac caactacccc gcccaaactg aaccctgct gacacgccta 240

tctaagcggt acagtcccat cacggctctc cgc 273

<210> 32011

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G12

<400> 32011

gctacgcgtg catggtcgcg tacggcaatg ccacctgctt cctcttcac gtgaaccaca 60

gcactgcgct gtagctccgc atcgatcgc aaggtaagg cgccgccggt catccagtgc 120

acatgcatgg tttagggcac ctgcactgac tccgtgcaac gagctagctg cggcacctga 180

agaggcagat gccgacgcgc ctgcagatgc cgcttcagca gatggagcct aaagctctac 240  
agactcaaat aatgcagcta gctcactgct cttcatatgc tcattgcttg ctgcctgcta 300  
actagtgggtg atacaactat tgttgccatg ttactaatca gtaatgatgc atctcccttg 360  
gtcatgacta tgtacttacc tatgat 386

<210> 32012  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-051-Q1-K1-G3

<400> 32012

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gctagaggca acatacagac aatcagctga ctctgttgca gttgaatcaa tgattgcaaa 120  
gttgacagag aaggaaggtc cttgcttaaa aggtaaaggc agggccagtg atgcagcaag 180  
aatcgtgggtt ctgacctgga gatcgttgct aattatgtca agagattgga agtacttctg 240  
gatcaggctt gtcttgtata tgcttattgc tgtgtcaatt ggcacgatat ttaccgatat 300  
tgGCCattca ctatcatctg taatgggtgag gatttctgCG atatttgcAt ttgtatcngt 360  
tgtcgtcctt ctaagtgctt ctggagtacc cgctcagatc gatgaagtca agattttattc 420  
ccacg 425

<210> 32013  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G4

<400> 32013

cccggattga gattgagtgg cagcacctgc acgatcaacc taccaagtgg cggcgctgcc 60  
actgagtgcc cggattgaga ttgagtgcAt cgctgctctc taatcagatc atccaaccac 120  
tcattaaatc atcaataagc acccaggaat ttgtggtaga ggtacctgta ccagttcagt 180  
gtctgaaaac tgcgggtaac aaacctttgt gtcccggata agtgatgtgt gtgtgtgtgt 240  
gtgtgagtga acagtgcAtc tagtaagaga attgttgCGt ggtttggtac ttggattctt 300

cgctctttag acaagaagta ccatggcatc aaaaaataaa atgtttgatt aactt 355

<210> 32014

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-G5

<400> 32014

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gaagagcgcc gccagcacgg ccgccgacag gcgcgccgcc tgcaactgcc tcaagaacgc 120

cggcaggggc gtcagcggcc tcaacgccgg caacgccgcc agcatccct ccaagtgcgg 180

cgtcagcatc ccctacacca tcagcacctt caccgactgc tccagggtga actaaaacct 240

agaccacgcg cgacgacggc cgnctgatcg atcgaccaac cattccgncg tcgccgncgg 300

ccggatcatc gatcgtcgtc atgatgatat ctatcaatct acgcgtgatg atcgatggct 360

acttgtctac tgctatgtac tactaaataa aatctctccg tgtgtgcacg tacgctngca 420

tgtgcatggt agcatgtatg tacgacgtcg tncatgtat 459

<210> 32015

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-G6

<400> 32015

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agctagcaga gcggcggcag gcacctccct cctcaaggaa catggcccgc acgcagcagt 120

tggcagtagt ggcgaccgcc gtggtggcct tgggtgtgct ggcggcggcg acctcggagg 180

cggccatcag ctgcgggcag gtggcgctcg ccategcgcc ctgcatctcc tacgcgcgcg 240

gccagggctc ggggccctcc gccggctgct gcagcggcgt caggagcctc aacaacgccg 300

nccgcaccac cgccgaccgc cgcgccgnct gcaactgcct caagaacgcc gncgccggcg 360

tcagcggcct taacgccggt aacgccgnca gcatccctc caagtgcggc gtcagcatcc 420

cctacaccat cagcaccttc accgact

447

<210> 32016  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E9

<400> 32016

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ccaaacaacg ccttaaaata gatgtttcga cattattatt ttcttgcttg caatccaggc 180  
tctaacaact tctcgggtctt gtttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
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<210> 32017  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C7

<400> 32017

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gcgaagaacc ccgtggatgg gttctccgcc gggcttgtag acgacagcaa catcttcgag 180  
tggcaggtca ccatcatcgg accgcctgac accctatatg atggaggcta cttcaatgca 240  
ataatgacct tccccagaa ctatcccaac agcccgccat cagtaagatt tacttctgag 300  
atgtggcatc cgaatgttta tctgatgga cgtgtttgca tttctattct tcatccacct 360  
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gaaagtatag gtctgagcat catttcgatg etc 453

<210> 32018  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-C8  
  
 <400> 32018  
  
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 aagtgtgagt tagttgacat actattcact tgtacctcgt gcgatttctt atacgtgtac 180  
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 tgtagtgtctg ttgtgtgtac cttgaatttc tttctacatc ttctgtgtgt ggcatagaat 300  
 gcgtgcagta aggtatggc taccttctgg ttgacatgcc cttgggtaat tattgtcgat 360  
 atgtggtttt ggttaaaaat aaaatttttt ttatttttta tttttttttt ttttattttt 420  
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<210> 32019  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-C9  
  
 <400> 32019  
  
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 gccaatgat gatttgattg agaaggctga tggctttgct ggtgtctttc cagaacacaa 180  
 gtatgagatc gtgaaacgct tgcaagcaag aaaacatata tgtggcatga ctggggatgg 240  
 tgtaaatgat gcaccagctt tgaagaaggc tgatattggt attgcagtag cagattctac 300  
 tgacgcagct cgtagtgtt ctgacattgt cctaactgaa cctggcctta gtgtgattat 360  
 tagtgctgtg ctgacgagtc gggcaatttt ccaaaggatg aaaa 404

<210> 32020  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-D1

<400> 32020

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agaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaataaaa 120

aaaaaaaaaa aaaaaaaaaa aggggggcct ttttaaaga tccaaattta atttcctttt 180

aatttaaatt taaaactttt tt 202

<210> 32021

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D10

<400> 32021

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catgctgacg aggcggaacg tgccgatgtg cgcccggtc agatacagga tgtcttcagg 120

cgcccggtc ttgacgaatt cgtccagcac cttgcggcca tagtggtgag gatccttgat 180

ctggctgtac agcttgccgt cggaacacgt cccggcgccg ccttcgccga actgcacgtt 240

ggattcgggg ttgagcacgc ttttgcgcca caggccgaag gtgtccttgg tgcgctcggg 300

cacggccttg ccgcgttcga ggatgatggg gcgaaatccc atctgcgcca ggatcagccc 360

tgcaaacagg ccacacggcc ccattgccat gacgaccgga cgcaagaaa 409

<210> 32022

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D11

<400> 32022

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gcgcaccgtg cccgggtggt cctaccgcct cgccttcgcc gtgggggact cgggcgatgg 180

ctgcgcgggc tccatggccg ccgaggccta cgccgagcgc gccacggcca aggtgcctta 240

ccagtccagg ggcaccggag gatacaagcg cgccgtgctg gacttcacgg ccatcgccaa 300

ccgcacccgc gtcgtcttcc agagcacctt ctaccacatg aagcccgacg gcacgctctg 360  
cgccccgctc gtcgacgacg cctcgctcgt cggcctgcgc a 401

<210> 32023  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D12

<400> 32023

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaagggccg gcctttttta aggaccaaatt tttacttccc cttacttgca 180  
acatatattat tctttttttg tgtcccttaa ttttaatttaa ttgcccttct tttaaaaacg 240  
tttcatttgg aaaaaccttg cctttaccaa attaaatcgc ttgcaaaaa ttcccttttt 300  
cccaatttgg cttattacca aataggccag caccttttgc cttttcaaac atttccccac 360  
cctaaatggc aatttgaacc ccct 384

<210> 32024  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D4

<400> 32024

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gattgttgaa taatctgtgc tgggttttaa ctgcgcccg atgcctgtac tgtctcttat 180  
tttttttgct agcaatagtt atgctgcctg caacttcatg cctactgtct gtactatttg 240  
ttttgactgt gtgtaagtct attgttattg atcattgata ccctgtcgac tgcccttacc 300  
ctttttgtaa aatatattaa tttatttttt tatttttctt gtatttttct tttcttttgt 360  
ttttctttat tttagttggt atatttttat ttttttttta ttagtttt 408

<210> 32025  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-D6  
  
 <400> 32025  
  
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 gacgacatca tgatccgtcc attttgtact tccatagctt tgaatcttgt tcgccagggg 180  
 cttgagccta ttgtaagttt gagttggctt ctctcccctt atcatggtga ctctcccaag 240  
 ctctgtcttc accagttaca tcttggaat catggtggcg tcattaccct cgtgagagat 300  
 cttgaaggta ttccatattt gctttgtatt gtccaagcca cagactttgt tgaattcatt 360  
 ccttcatagg gatgcttaca aaacaagtgt atcttgtgca attttatgaa tttgcttaat 420  
 aatcaatata ggattatcag tactattcaa atgcatt 457

<210> 32026  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-D8  
  
 <400> 32026  
  
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 agaatggagg gagttcggac aagaatatta cagaattcat cgctaagtat tctttaagtt 120  
 aattttcaaa gatttcgtaa aaaatataat tttcaaaggt aaaaaaaaaa aaaaaaaaaa 180  
 aaataaaaat aaaaaaaaaa taaaaaaaaa aaatatattaa acttttttaa gaattccaat 240  
 ttta 244

<210> 32027  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-D9  
  
 <400> 32027

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 ctgctgtgcg cggcggcggc catggccacg ggcgagcagg cctccggcgt gcgcgcgacc 180  
 tacaacttct acaaccgcga gcagaacaac tgggacctca acgccgtgag cgcgtactgc 240  
 gcgacgtggg acgcagcaa gccgctgtcg tggcgcatga agtacggctg gacggccttc 300  
 tgcggggccg ccggccccac cggccaggcg gcgtgcgggc agtgtctcct ggtgaccaac 360  
 acggcgacgg gggcgtccat cacggtgagg atcgtggacc a 401

<210> 32028

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E12

<400> 32028

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 gccatggtgg gcggcggagg gcattcgtcg atggaccacc ctggcgccaa ggacgatgga 180  
 gacggggaag aaagccagta cttctcggac gcggaggacc ggtcgtggcc gtcgcactcg 240  
 cgccacgact ccaccgccta cgaggactac gtctcgtgtg gcgtgtccgc ccgcgcgagc 300  
 tccgtcgacg ccgacgcga tgccgacggc gaggccgtca gacaacactg catgaagtcg 360  
 tcgtgctgtg cagagggctc gctggacgac gttgacc 397

<210> 32029

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E7

<400> 32029

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 ggcgcgatca ccacctcgg ggcggaag gagcctgtcg tggagcggcc agaggcgggt 120  
 gaggaggagg acgcctcagc cgccgccgcc gcgggggagg aggaggacac gggcgcccag 180

gtggctccca tcgtgctggt tgaggaggta gccgtcacca ccggcgagga ggacgaggac 240  
 gtcttgctcg acatgaaggc gaagctgtac cgattcgaca aagacggtaa ccaatggaag 300  
 gaacggggca cgggctgtgt caagcttctc aagcacaagc agaccgtcaa ggtccgccta 360  
 gtcattgcgc aggctaaaac gcttaagatc tgcgcgaacc accttgtggc cttcaccacg 420

<210> 32030

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-C6

<400> 32030

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 gcaagcttat tcccacagct cgcgcagacg gagcacggcg tagccggcgc ctcccatggc 180  
 gcgccgagct tcctgttctg caatggcgca ggtgcagcca cggcagactc agcctcgcta 240  
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 aggaaggccc ggacgaagcc caggaagac agcgccagcg ccagcgccag cttcagcttc 360  
 agctctgcgc actccaagga ctcgagctcg aagggaagca ccaagaatag gggagggaaa 420  
 agaggcagaa gcagcaagg 439

<210> 32031

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A2

<400> 32031

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 tttcgccccg atctgaccat ctaagccttg cctttttaacc aaaaataagg tcctgtcccc 180  
 tctttctacc caccgaaata agtaaataac cttaaaagta ttggtatttt acttgctccc 240

ggaagcttcc act

253

<210> 32032

<211> 431

<212> DNA

<213> Zea mays

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<400> 32032

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gaagaagcca agaggggtgat cctgtgcgac aagcccgacg ccgacatcgt cgtgctgccc 180  
gtcggcacgc cggtgaccat ggatttcgcg cccaaccgcg tccgcatctt cgtcgacacc 240  
gtcgcggagg caccacacat cggctgaggt ttaaacttac aaaatgaatg actcggacat 300  
gccatgcgta cctgtccgtc gccgaataat ggatgtgtgt gtgcttcggt ccaatatatt 360  
gctagtaaaa ataatggcat cgtcgggtatg catgaataaa atgtatcaga atgttcaatc 420  
tttcacgatt g 431

<210> 32033

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A4

<400> 32033

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<210> 32034

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A6

<400> 32034

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 gaaaggaatc gatctaaagt attctggtga tttcccctgt ataaatacag ggaaggcaaa 180  
 gcgcccaca tattttccaa tcgagctatg ctgcttgggt ccgcttcaaa gatacaccaa 240  
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 aaggatgacc gttctaaatg atgcactgca acgcagtaac tacgattctg accccatggt 360  
 gagggcatgt ggtgtttcag ttgctccaaa atttaccxaa gttgaaggaa ggatccttca 420  
 agcccccaaa gctgaagccg gcaatggtga tgatatcttt tca 463

<210> 32035  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A7

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 accatgcgca agaccgtggg caagcccaag gtggcgggct ccggcagccc ctggtacggc 180  
 cccgaccgcg tcaagtacct cggccccctc tccggcgagc ccccgagcta cctcaccggc 240  
 gagttccccg gcgactacgg ctgggacacc gtcgggctgt ccgtcgaccc cgagacattc 300  
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<210> 32036  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-051-Q1-K1-B1

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ggtccccggg attcaggctt cttggagagg acacttccgt gcacaaatcc cttggggggcg 300  
 gtaaaactgc tgacgttctg ttatggaaag acaagaaaac ttctgcttgt gtaatangcg 360  
 gcgcaactgt catctgggtt ctgttcgaag tgcttgatta ccaccttctg accctgatat 420  
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<210> 32037

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B10

<400> 32037

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 ctcaggcaaa gagggctcgc atcctcgcct gctccagaag gttgaagcac aggggccccg 180  
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 ccaatggaga gatctacaac cacaagaacg tccggaagca gttcaccggc acacacaact 360  
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<210> 32038

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B11

<400> 32038

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 gaacgagagg ctccgggaga gggccagcgc gctccgccgc gagaacctcg cgctgctcca 180  
 gaacctgtcg tccaggacgg cggccgtgcc agagccagga gcgggagctg cgtgaggttg 240  
 ctgcttcgat cctctgcctg cctgcctgct gaacatgaag tagcgagctc gcgtcaccct 300  
 cgtcgtttgg tgcttggtgct acttggtgtg acaggagaca ggccagtgaa ctcgtagccc 360

taggaggcca tctgcttggc tgctccgcca tgtctgtgt 399

<210> 32039

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B2

<400> 32039

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ctctatatga caggaaatgc agaactcctc tatttttggga ccagactaga ggaagacagt 180  
tcttttgacc tgaacttatt caagaagcag aaaaacaagt tcgtataatt cgagagaatt 240  
ggaaggtagc tcagaccaag caaaagaagc tacgctgata atagaagaag accactggag 300  
tttgaagaaa gtgatcatgt gtacctcaaa gtgtcaccac ttcgtggaat gaggagattc 360  
aatgttaagg gcaaattgtc cctcgccttc attggaccat tctgagtttt ttaggcaatt 420  
ggagagatgg cataccaact cgagttacct gctagtcta 459

<210> 32040

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B7

<400> 32040

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agaaaaaaaa aaaaaaaagg aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaggtctcc cttttcaaag attcaaactt tacttccccct ttcttccaac 180  
ttttaaatc ttttaaaggt tcacctaatt aaattttatg gcccgttttt taaaaacctt 240  
ttccctggaa aacccttagt ttaaccaa ataatcacct tccattaaat cctcttttca 300  
actttttt 307

<210> 32041

<211> 380

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-051-Q1-K1-B9  
 <400> 32041  
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 atacataaca tagaaatcac acgtggaagg ggtgggcaat tagctagagc agcacgtgct 180  
 gtatcgaaac tgattgcaaa agaggggtaaa ttggccactt taagattacc atctggggag 240  
 gtccgtttgg tatcccaata ctgcttagca acagtcggac aagtgggtac tgttgggtgtg 300  
 aaccaatata gtttgggtag agccggatct aagtgttggc taggtaaacg cctcgtagta 360  
 agaggggtag ttatgaaccc 380

<210> 32042  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-051-Q1-K1-C10  
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 aattgcttcc ttgccaatta ataaccaa ataacatcccc ttacatctca actcatatct 180  
 ttccataact caccctaact atcatttaac tcccc 215

<210> 32043  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-051-Q1-K1-C11  
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 cggcagcgca ggccccgacc gccaccccg cgcgggtcc caaggcgtcc ccaccgcgg 180

cgactccgac gccgacccgc tcgccggcgt ctccgcccgt gccgcccacg accatgcctg 240  
ctccagatca cgcgc 255

<210> 32044  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C12

<400> 32044

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gccatggcga ccatagccac gatggcgctg ctgaagcccg ccgccaaggc cgcggcgcg 180  
ccggcgccgt ccaccagcag cggcagcgtc tcgctgcgcg tcccggggca ggccgccaag 240  
aaggctgcgg tgtccgcgtc cgcgtcgctc acgctggcgg gcgccttctt cgcggcgctg 300  
gcgtcgctgc ccgacgctgc gctggcagac gtcgcggcgg cggacgccgg cggcgacagc 360  
cgcggccagc tgctgctcgt cgtggtggcg cccgccca 397

<210> 32045  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C2

<400> 32045

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ttgacatact acctccagaa aagttaagcc cccactaaa gcgacctgga aaaggagtca 180  
tcaaaactct gttccgctcg aggcctccg atgaaatgtc tgaagatcag atggacagag 240  
gatgtttaga acctgatgtc gtggaggaaa tatacgagga gggctctgca atgcttgctc 300  
gaaggttgaa tataaattac ccatctggaa atatgttcaa gctgcatgat tgtgctgtct 360  
gccaattgga gatgaaacct ggtgagggca cctctgttca tggtaacatg cccaagcatt 420  
c 421

<210> 32046  
 <211> 399  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-051-Q1-K1-A10  
  
 <400> 32046

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gcggcgtggg gggcgggccc ggagatggcg ctccctcgcg ggccgctctg ggcggcggtc 120
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gcccccgccg cgcagccgcc cttegccacg ctcgacttct ggaaggccca gctccccgcc 240
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gacctggcga acctctggag gctggtggag ggcattggac 399
  
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<210> 32047  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-C3  
  
 <400> 32047

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ggaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aggggcgccc tttttaaggt ttccaagttt atttaccctt ccttccaact 180
taaaaccttt tttttagggc ccccaaattt caatccattg cccgtctttt taaaactttt 240
atactggaaa aaccttgggt ttccccaact taatcccttt gaaaaaaatc cccttttt 298
  
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<210> 32048  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-051-Q1-K1-C4

<400> 32048

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agcatgctga gccaccgcgg cgacagcggg tgccagggcg cttctacac ctacgacgcc 180

ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240

aagcgggagc tcgccgcctt cttcggccag acgtcccacg aaaccaccgg tggatgggcg 300

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<210> 32049

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F6

<400> 32049

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ggaaataata aagggccata caaactcctc aaaccacaat ttcctacccc tccatccaaa 120

acaataagac tggtaaacg atcccaaaag acaatcaaat ccccgttttc taacaacgga 180

attactgaaa taaccttaaa actaccaaa 209

<210> 32050

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F7

<400> 32050

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atcggccaag ccggtatcca ggtcggaac gcgtgctggg agctttactg cctcgagcat 180

ggcattcagg ctgatgggtca gatgcccggt gacaagacca ttgggggtgg tgatgatgct 240

ttcaacacct tcttcagtga gactgggtgct gggaagcacg tccctcgtgc tgtttttggt 300

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375

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<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F8

<400> 32051

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51

<210> 32052

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F9

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ccagggggtg ggtccccttc tgacgggtca gtggaatctt tatgccccaa atcctgattc 180

gagtaatcat ttatttggtg ccaactcaagg agcgggaact gccattctga cccttcttgg 240

gggattccat ccacaaacac aaagtttgtg gctgaccgat attgctcatc atcatttagc 300

tattgcattt atttttctca ttgccggtca tatgtatcga actaacttcg gaattgggca 360

cagtatcaaa gatcttttag aagcacatac tcctccgggg ggtcgat 407

<210> 32053

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G1

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aacctcccgg agagagagag agagaggagg aggccttcgc cgccgccggt gccgtcggcc 180

gagacgccag gatgttcggg taccagaagg gcctcgatgt cgaggcgggg acatcgggcy 240  
 ccgccgccac gggcggcgcg cgccagctct acccggggat gcaggagagc cccgagctgc 300  
 gctgggcgct catccgcaag atctacgtca ttctctccct ccagctgctc ctcaccgncg 360  
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 ccgggctcgg gctctacatc ttctt 445

<210> 32054  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G12

<400> 32054

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 ttgcaatcca ttacatactt ctctagtgtc ctctaattac aattaattac ccaccatttt 180  
 aaaacctcat gcattcgaaa aaaatgcctc taccaaactt attaattctt aatcacatcc 240  
 tcattttctc atttgcccaa atatcaaaca tcaccccatc aatctgcctt cctaacaatt 300  
 ccctactctc cattgtgcat agaaccacc ctttagttct cca 343

<210> 32055  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-050-Q1-K1-G2

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 gagaccaccg cggcngtgga gagggaccac cagaggcacg agcaccggac ggcaacacac 120  
 accgggcaac aacgggcacg cgaccgccac caacagcaag agcgacaa 168

<210> 32056  
 <211> 442  
 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G4

<400> 32056

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tgaccagcca tgcctccgtg ctctgggatg ttcatggggg ttgcttgcg tggcttactc 120  
tgtcttcaac gtctttacca aactgttcaa gnggctcaga atggaagaac atncgccttg 180  
aggaccagcc ttacttttcc ctggcagtgt gtttgcattt tttttcttct tgaatgctct 240  
tatctggggg caaaagtcct cagggtgctgt tccattcacc accatgtttg ctcttgcctc 300  
cctttgggtc ggtatttcag tacctttggt ttttgttga agcttccttg gcttcaagaa 360  
acctaccatt gaagatccag tgaagacaaa caagatacca aggcagatcc ctgaacaggc 420  
ctggtacatg aaccaatct tc 442

<210> 32057

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G6

<400> 32057

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gtctaccaga tgcaggagac cggcgcctc ctcttccctg ccattaacgt caacgattcc 120  
gtcaccaaga gcaagtttga caacctgtat ggttgccgcc actcgctccc tgatggtctg 180  
atgagggcca ctgacgttat gatcgccggt aagggtgctg tggctctgcg atacggtgat 240  
gtcggcaagg gttgtgctgc tgccctcaag caggctggtg cccgtgtcat tgtgaccgag 300  
atcgaccca tctgtgccct ccaggctctg atggaggggtc ttcaggctct tcccttggaa 360  
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<210> 32058

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-050-Q1-K1-G8

<400> 32058

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gggcgacggc ggcgggcgct cggaagcccg tggacgtgcc gttccagaag aactacgtgc 180  
cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggaggtg cagctgtacc 240  
tggacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300  
gcatgcacat gaagctcgtc ggcgggcgact cctggggcac cgtcacggcc ttctacctgt 360  
cgtcgagaa cttcgagcac gacgagatcg acttcgagtt cctggg 406

<210> 32059  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G9

<400> 32059

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aattgtttgt ggctcgtcca ttaaattcca catttcaagg gagattgttt atcattattc 180  
ccaagctgtc atagatatca ttatcgcatg gtctgtaaca tgaccataat cttctaacat 240  
gactctgggt tttttatcat actactatct aaccttttcg tcatttattt cctatatatg 300  
gttactctat atccttagtc taatta 326

<210> 32060  
<211> 326  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-050-Q1-K1-H1

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gcgcgagnga aggggngggg caccaggcc cacaaggcc cgaaccacaa cgcgcgccgc 180  
ngaaacggc aacaagacga acagcaaaca acacatgaac cggagacggg gagcggagag 240  
acgcncgcgn cacaacaaca cacacagacc ggcagcaaaa agcaacggaa cgcgccggac 300  
gcacncaaag cacggaagaa agaggc 326

<210> 32061  
<211> 339  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-050-Q1-K1-H10

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tgcttcgtca cggggcttgc ctggggccacc agcaaccatt cgctcgataa tgccttcgcc 180  
tcctacagct agatcctcta ctccaacgtc atcaccaacc acgagacagc gaggtctcgc 240  
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aacggcaagg atctcaacct ccctaaccat accgctaac 339

<210> 32062  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H11

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tccgcgcgcg gggcaggcgc cgctccccc cggggccgcc gtccctgccg ctgctcggca 180  
gcgtggtgtg gctcaccaac tcgcccgcgc agatcgagcc cctgctgcgc cgctcttcg 240  
agcgtaacgc ccccgctgtg gcgctccgcg tcggggcgcg cttgtccgtc ttcgtcgcgc 300  
accgccgcac cgcgcacgag gcgctcgttg accgcggcgc gacgctggcg gaccggccgc 360

cgctcgcgtc ggtcaagttc ctcgacgaga gcgacaacac catcac 406

<210> 32063  
<211> 404  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-050-Q1-K1-H7

<400> 32063

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tgttctaaat gatattgtca tagcactgtc tgttatcttg tcagaaacta gccagattaa 180  
gttcacattg ttgagagaca atagcaatga agcagaaagt aataacttag attgtgttga 240  
taaagtgact ctacttgaaa ataaggtgca gcttgagcca gtaaaagaca atgttcctgg 300  
tatctgcca ctgttgctc attcatcttc tgatcctgag tttgaggggc ctgctgatgc 360  
tagattcgat gttaagactg cagtgaagggt gtactcgccg gagg 404

<210> 32064  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-050-Q1-K1-F5

<400> 32064

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gactgcagat gatgttggtg ctcttcttgc tgtagactgt acgcctatgg atgacaatgg 120  
ccgccagggt gatttggtga cagaatttgc taataatggg aataagataa catgtgatcc 180  
agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240  
tgtcctgcag gcttattctc ctgaggaaatg ggaactggct acattgggtgc tcacacgacc 300  
taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360  
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tacaactctt ccatttaaca ca 442

<210> 32065  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H9

<400> 32065

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accgcgcgca cagcaggtgc cagggcgccct tctacaccta cgacgtcttc atcgacgcca 180
ccagcaagtt cctcagcttc tgcaccaccg gcgacgagca gactctcagg cgggagctcg 240
acggcttctt cggccagacg tcccacgaaa ccaccggctg atggggcact gctccggatg 300
gaccgtttga ctggggatac tgcttggtga acgaacagaa acagactgac ccaccctact 360
atggacgagg acccatacag ctaactcata agtacaacta 400
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<210> 32066  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A1

<400> 32066

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caaatgattt gtgcgatgtg atgcgacttc tgacaaagtg aatcgaattt gcatacctta 240
cacctttgga aagtgtatga gctcgtacat cttggaataa aacatcaatt cttctttgct 300
aaa 303
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<210> 32067  
 <211> 407  
 <212> DNA  
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<223> Clone ID: LIB3068-050-Q1-K1-D12

<400> 32067

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gcgtgattga caacatgtac aaaagtgcta agtgaactca ctctacagta cacatcccga 180

tgaagattcc caacgctgaa tcttgaatga gcagccagaa gttctgctgc gtatatgctc 240

gtagtttgca tgcgagaatt ctctctgtat cagtttttca gaaacgattt gccttgggca 300

tatatatata gcaaaaccgg ctatgtggcc agcagccaag tggagacacc gtttcaaatt 360

gattgaacta tggcgaatac tgattgacag aagggttagg gcatgct 407

<210> 32068

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-D3

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ccgaggacgc cgaccctgag gagttccaca tccggaccct caccctcgct ctccggcagct 180

aacagaaggc caggagcgca ntgctctacc actacaataa cgctgcagc ggcttctccg 240

cgaagctcac cccccagcag gtcaaggatc tcaaggagca accaggtgtt ctccaggttg 300

tgccgagcca gacttaccag ctacatggct ctgggtctgg cacttaccag ggcacgacac 360

acaccttggg ctttatgtga aggcgtttga gaatcaagaa gattgtgttt aagta 415

<210> 32069

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D4

<400> 32069

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggcgcaa 180  
 caaaaaaaag accaaaagaa aaaacaaaga tataccacaa aatgaaagca aaaaaggaga 240  
 gaacaaaaaa aattacactg ccagaaatta aaaaaatcaa aaaaaaaaaa aacacgcgac 300  
 atacaaaaca aaaaccagac ggaaaaaaat aaaaaaatac aaacagg 347

<210> 32070  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D6

<400> 32070

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 ctgcgctctc aatggcaatc atttgactgg gcccatccca agggaaactcg ctggaatatc 120  
 tagtctcaaa gttgttgatg tttcaagtaa tgatttgtgc gggacgattc ccacgtctgg 180  
 accatttgag catattcctc tgagcaactt tgagaagaac ccgcgcttgg aaggtccaga 240  
 gctacaaggc ctggccatat acgacaccaa ctgctagagg caccacgaag aaaagaactg 300  
 ctagaaagta acgagcgaac aaggttacca gaaattgggc gatatagatt tactaggtct 360  
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 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-050-Q1-K1-D7

<400> 32071

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 acgcggcacg ggcagcaana gggcaaaaca aaccnggcgc acgacggncc aaacacaacg 180  
 cacgaaccga acacgggggc gaacagacca acacaggggg aagaccgcag cacaacgaca 240

ggaacagccg acagccaagg

260

<210> 32072

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D8

<400> 32072

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51

<210> 32073

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D9

<400> 32073

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aattgctagc tatggttatg ccgttatgaa ggaagaaagt gtatgcatgc atggtagggt 120

aaagagtggg taattaatat cgttgatcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaagaaaa 240

aaagctaatt acttgaaaaa aaaaaaaaaa caaaaagggtg cgaccttttt aaaattaaat 300

gctgctggac agacaaatgg cggggccgta aatttttata gggttaccaa attttaaaaa 359

<210> 32074

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E10

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ctagccttta gccctagcta gtagctagcc actcggtcgt gtagtcatca accttatgat 120

cgtcacccat ggccactgcc gacgtccaga ccccgaccgt cgtggccacc gaggaagcgc 180

cggtggtgga gaccccggtc ccgtccgccg tcgtgccta ggaggctgcc cctccgtcg 240



aggccaacgt ggacgagcca gctgccccgg cggaaccga gccagctgcc gtcgctgagc 300  
ccgaggctgc ccccgaggca gcgagggaag agacgccaaa ggaggaagag acagctaac 359

<210> 32075  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E11

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cctcgagcat aggcaccaga tgatagctat gattcttact tatatgcatt caaccataat 180  
ccgtcacact ataactctgc tccactagct tttcaaccca tcgcgattac cacttgtatg 240  
aatcaacagt tcctctcata ctatgctgaa ttactaatct acagctcact cattaattca 300  
gtcaaactat cctttctcac gaccgtctaa actcatttta cttctcatat cgtccggtta 360  
acaatcctac acttaactaa ttc 383

<210> 32076  
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<223> Clone ID: LIB3068-050-Q1-K1-E12

<400> 32076

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gccggttgcc ggccgctacc aggagttcgc gccgtctgta tggggagatt tcttcgtcac 180  
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<210> 32077  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E4

<400> 32077

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ctctgtcgat gccgtccac gacgcagatg agctcaccaa gtggtcctc taccgctcgg 180  
tcatcgccga gttcatctcc acgctgctct tactctacat caccgtggac accgtcatcg 240  
tatacaagca ccacacggac acggcctctt aaggccccga cacggcgtac agtagcgtga 300  
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<210> 32078

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E6

<400> 32078

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tgcagcatat gatgtagctg ctaggccaga tgtacactga cctactatgg atctcgatgt 120  
acgccgagga gatttgata caggatgagc gtactctgac gaagaaaata acatggaatc 180  
cagagatgca tagt 194

<210> 32079

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E9

<400> 32079

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attttttaaa tatattacc tatccccaag gcttgggtcc cttctgacc attcaatcca 180  
atctttattc ccaaaatcct gattccacta atcatattt tggtaccact caaggaactg 240

gaactaccat tctgaccctt cttccgggat tccatccaca aacacaaact ttgttactta 300  
cctatatttc tcatcatcat ttagctatct catttatctt tctcattgcc attcatatat 360  
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<210> 32080  
<211> 305  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cgaaggggct catcccgac tccgtcacct cctacagctt cgacgaggcc acggggcgct 180  
tcgagatcca cctgaccagc acctgctacg ttcacttcgg ctcccacctc gtctactacg 240  
agaggaccat aaccggcaag ctctccagg gcgccatctc ggacctctcc ggcgtccagg 300  
ccaag 305

<210> 32081  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F10

<400> 32081

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cctacgcgtg atccgcgaga ggaagatgga tggcgtagtt gttttcaccg acgacagcaa 180  
tggtcatagc atggagctgt tcgatgaggt gcacaaggct cagtggatgg gtgctgtatc 240  
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gcagaatatg cctcttccag tccaggggcc tgcttgcaac tcttcagggc atctgattgg 360  
atggcacacg ttcaactcat tgcccttctc tgggaagacg gccacagt 408

<210> 32082  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-050-Q1-K1-D11  
  
 <400> 32082  
  
 gcgtcgttct tcgacccaaa ccgtaaacag ccgatgacta gcccggtggt taccctatgc 60  
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 actgcagcat atatcctggc ctatttgctc gctgggaggc caattatgcc acgacgaaca 180  
 caggttgaac agctacataa aatttttaat ttgtattgct ccacaacaga ataatttgg 240  
 aaaaagtcta atctacctca tgctacaata tttaatcctc agcaaccgta cagaaagcga 300  
 ataacatata cttttaacga ttttccacaa tcaacactta cattgatcta gacactactt 360  
 gcaattgatc catcatatcg cttaac 386

<210> 32083  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-050-Q1-K1-F11  
  
 <400> 32083  
  
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 cgacataccc gacaactaaa cacaacaac acaccactaa aaaaccaa at acacctacac 120  
 acactaacac ataatccac 139

<210> 32084  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-050-Q1-K1-F3  
  
 <400> 32084  
  
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accctccgcc ggcgccgtc gtcgacgcgg atgagctcac caagtgggcc ctctaccgcg 180  
 cggtcacgc cgagttcatc gccacgctgc tcttctcta catcacctg gccaccgtca 240  
 tcgggtacaa gcaccagacg gacgcggcgg cgtcggggcc cgacgcggcg tgcggtggcg 300  
 tgggcaccc cggcatcgcg tgggccttcg gcggcatgat cttcatcctc gtctactgca 360  
 ccgncggcat ctcaagtggg cacatcaacc 390

<210> 32085  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F4

<400> 32085

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 agctcaaggt ggtgttactg tacacattag ttg 213

<210> 32086  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A12

<400> 32086

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<210> 32087  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 32087

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 agcagnacac caggcgacga agcaagcggc acgaggaggc ggacaaggga gnggncggcg 180  
 cgccgccggc gagagccaga gaaacgacca agagcgcgcc cacagagacg cgacgacacc 240  
 cgcgccagcc gagacgcaa gagcnacagc cggccgaaca gagcacggcg acgcgcaagc 300  
 cagacccgag cgagcccanc agaggacaca gaccagcagc cgaccgacac ggaaagaagn 360  
 caccagcca 369

<210> 32088  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aacaagggtg gctgaactat agaggccctt gattacacag gccgatccgt gtgtctgggt 120  
 ggatgcaccg ggggagaaac tgcattcaca aatcctcaaa gcacattctg catgtctcac 180  
 tattctgcat gaccaggctc aacgggtgca agaaacaaca gctagccaga cccgttagaa 240  
 acggacgctc ggcgcgtagc cacgcgtgca ggcccggcag agagccaagc ccgctagaaa 300  
 cggacgcacg gcgcgaacgc gcacttgcaa gcccgggtgca gccacaccg tacggaccag 360  
 gctggcacag tgtatgaaac cagaaatgcg gtatgtgact gacatggaga tgcaa 415

<210> 32089  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-050-Q1-K1-A5  
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 gcgcggatct gaacgctgcg ctccgtgtcg tcgctcgaat ccgcatgaa gggggccaaa 180

tccaagggcg ccgccaaggc cgatgccaaag ctggcggtga agagcaaggg ggcggagaag 240  
cccgccaaagg gcaggaaggg gaaggccggc aaggacccca acaagcctaa gagggctccc 300  
agcgctttct tcgggttcat ggaggaattt cgcaaggagt tcaaggagaa gaaccctaag 360  
aacaagtctg tcgctgcggt gggaaaagct gctggcgaca ggtggaaatc cctgagcgag 420  
tcggacaagg ctccctatgg agccaaggct aacaagctca ag 462

<210> 32090  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A7

<400> 32090

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gacaacgaca gctattttgc agaacgcaat caccatatgc aatgccacat caattttcac 180  
attgtcctgg atcggctctc tttttctagt ttggatttgt tctgctagct aagtagctct 240  
cttattcttc cagttcatag gtgtgctatt ccttttttcc tttttttgtc aagtgtctct 300  
cattgattca aggtcacaca ggtttgattc tgaagcttga ttttttttgt gtatcaactc 360  
tgccctgctgt gttcttcttt ggttttgaga tgagttgcgg tttgaggag cgataagtat 420  
gtacagcaga atgcccgcac tgtaacatca caata 455

<210> 32091  
<211> 204  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A9

<400> 32091

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ttccataaca tgaccaatca cacctacctt aaaactctct accatattat caccttcttt 180  
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<210> 32092  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-050-Q1-K1-B2  
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ttaacaagtt cttcactgac cctaagtga gcatgttgat tggcatacta ctactactac  180
ttgctactgg ggattttaca ctttgctggc aactcaatat gttggggaca tccatgacct  240
ctaaaagtac tttgagcgct tggatgatgac ttggtatatg tatgatgggtg gatgagtttg  300
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<210> 32093  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 32093

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acggggcaaaa agtccttcac tgaccctaag tgaagcacgc cgactggcat agtactacta  180
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 <211> 338  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3068-050-Q1-K1-B6

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tacaatgccc cgtcgcgccc acgcgtccga aaaaagaaat actacaacta atactagcta 180  
cagaaaaatt aaaaaatcgg atagcaacat aatatgaggg cggacactca tgagctocca 240  
aaattcctgc cagcgtcttt gcgatgacca tagcttatgt atgggtggcag gtaagtctaa 300  
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<210> 32095

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-B7

<400> 32095

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gtggaccacg gaccggctcg ggcggcgggc gtcgatcctg gtggccgact gcctcttctt 180  
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<210> 32096

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tccacatacg ttaatcggtc ccaccggatc cctcgccgcc tcccacgggc cgggccgcgc 180  
cgtggcgcg cgcgaggccg agatgcggaa gaggatggag agcgtcgacg atctgatcga 240  
ggaggcaaaa ctgcgcaccg tctgggtggc gctctgcac ttccgctct cctacttctt 300

cacgcgtgag cacgtccctt tctgtccctc tctgcttccg tgccctcattt gcgaccgaat 360  
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<210> 32097  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-C1

<400> 32097

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 caaacaaaaa aaaaaaaacc acaaacaaaa aggggggcccc ctccaaaggg cccaggggtc 180  
 aactccccgg ctttccaacg ctaaagtact aataggggga gcccaacgct caatccccgg 240  
 cccgggggttc aacaacttcg taccgggaaa accccggggc tcccccaaga aaaccccggt 300  
 gcacaacacc cccttttcgc cagcggggat acaaccaaaag ggcccccaacc caaacgcctt 360  
 tccaaaaatg tgccccccca aaagggcaaa cgggaccccc cctgaacggg ccataaac 419

<210> 32098  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cccagtcgg cgtagcgtgg ggcttgggac tctactgcc acagcggcca aagctactcg 240  
 cccccgccgg cctactgcgc ctgggggtgg tacggcaacg tcgtccacgt ctgcacgat 300  
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<210> 32099

<211> 409  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 32099  
  
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 <211> 319  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-050-Q1-K1-C3  
  
 <400> 32100  
  
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 ctacgagaag cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga 240  
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 <211> 175  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-050-Q1-K1-C6  
  
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<210> 32102  
 <211> 116  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-050-Q1-K1-C8  
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<210> 32103  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-050-Q1-K1-D10  
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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180  
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac atggacaact 240  
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300  
 cccgttcctg gggacccaga tcaatatatc tgttatgtag cttatccatt agacctattt 360  
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<210> 32104  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-050-Q1-K1-A11  
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cgttgccatc cctcttgca c ttgctgcctc cagcatgttc atgattgggc gtggagttta 240  
caacatgtct catggaattg ggaaaaagga gtgatctacc acgggttaac tagtttttct 300  
acttggcatg gaagtaccat ccagactatg aagtcttctt tgcttgctaa ataatactgt 360  
caaagaacaa gtcgactaca tttttgcatc atatttctgt ttgtatttgt ggata 415

<210> 32105  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G2

<400> 32105

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cgtctccttt gtgaccctga acaagggttg tggattcctg cagcggatgg acctgtgccg 180  
taagtacgcc tttgggaaga tgctcgtgat aggctctgag ccacccttca agctgaaggg 240  
cctttggctc ttccgtggcc aggatgttcc caagtttgta atggatgagg tctatgacat 300  
ggagctctac gagtggacca aggtggacat ctctgatgag gccagaagg agcgtgtcaa 360  
tgcgatgatt gaggaccagg agccctttga gggcgaggcc ttgcttgacg cgaaatgctt 420  
caagtgagtg tgcttgctg gagacagaac t 451

<210> 32106  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G3

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cttcagccg cccaacgacg ccgcggtctg ggcgcccttc ctctccgctt acaacgtccc 180  
 gctgccgccc tacctcgcca ccgcggtcac acaggacgag acggcggggt acctgctcgt 240  
 caccatccgc gtcgacggct ggatccgctg gaaggccggg gccttcatca ccagccacta 300  
 ccacctcagg gtgcgctgcc ccgcggtgct caccgtcaac gacggacaag gaagctacgg 360  
 ctccaacgcc ggtggagggc tcggctactt caagttccag cgcgcagcac cctgcatcgt 420  
 agacgtctga gatcgatctc gatcacaaat cacatttaag ag 462

<210> 32107  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G4

<400> 32107

tcccggtcga cccaccgtcg aaaaaaaaaa aacacaaaac aacacaatta tttgtcacia 60  
 ctgatacaat tcacggagcg atttaaaaaa tactgttaaa aactctacat gcaccacttt 120  
 catgctttct acgacccctt tattaccctc acctgccatc ttttaacaat gcagtgactg 180  
 gcaaaatcct ggtatcacc cttttaaacg cttctctcaa caatctcttt tccacacctt 240  
 acgttatcgc aactttgccc atccccattt ccttaccctc caaacctctt accttaatgg 300  
 ccaaattacc cccccctata 320

<210> 32108  
 <211> 192  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G5

<400> 32108

gagatcagac catgagttac aggacatata gtctgatcat acgacatgga caggacagc 60  
 gtatcgtaaa tgtgggggga atatgaactt tcgatgctgg gactggggcc gagcactgtg 120  
 gatactgctg ccagagactt actaaaagaa catatatatg cagctctaga gagggttat 180  
 acatgcaagg aa 192

<210> 32109  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G6

<400> 32109

gttcttccag ggtatggggc aatttttcat ataatgggga ctggtctgtt ttggttggtg 60  
ctgcttatca ttgttggttac agcaatgggc ccacattttg tggtcaaggc tttaacagaa 120  
cacttaagcc caacgatatt caaatcggcc gtgaaatgga aaaatttgca aatggcaatt 180  
aagtgaaccc ggtggaattt ccaaccagag gactttcatg acaatagtag ggaaactata 240  
gtatttcgtt cttttcttat tttcacgtct ttcccccta ctggtgtgaa taggagctga 300  
ttcatttagc tgtaagggtga taggtttaat ctctaattgtg catgtatgta ttcgtataaa 360  
atttacagaa aaggaaatag aagtccacgt acaagttttc atctgcttgt tgcagcatta 420  
ttgcaggcta aattt 435

<210> 32110  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G7

<400> 32110

ctcgaatcga ataaataatc atagtcagag ctagcaagca atgcaattga catctggtat 60  
ctcaattgat gacctaacag ttctaattgcg ctgacaccta gtagtcccat ctgcacatgc 120  
catcgtcttg attgtgtcgc tgtcttgatt gtgtcgtctg ctacctatgt tggcacatca 180  
ttgttgatg gatatacatg tctaaaatgg gccaggtttg ctaggcggcc catggcctgg 240  
cacagtttaa cctggcttga gcatgatccg gccggtgtc cactgggccc atgctagtct 300  
ggcttgatca ccgtgtcgtg catgggcctt aggtgcagca cgacgggcta gaccgggtac 360  
agatcggttt tttttcccta tttttcataa aaaatatcct tattatgctt gattatagaa 420  
tataaaacaa aaaatatgtg tgtaaagggtg gagtg 455

<210> 32111  
<211> 323

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-G8  
  
 <400> 32111  
  
 ctcagcgtg tccagatagc gtcgcacccg atcgccgggc caaacgtgca gagcacgatg 60  
 gtgctggact tactgtctgg cggcaaaagc acagcgctac ccaacttcgt gcaccgtcgc 120  
 agcttgagga gtttccgggg atgaaaggct atcccatgca acatcgacta gttcatgtct 180  
 cgagcacaga gcaaagacat atgtgacgtg tctaaaacat atgtcgtact ttatgtattg 240  
 taccaattaa acatttaatg aacttaattg atcaaataag ttaatggctt gaatgacct 300  
 tagtttgaat ccatgttttg agt 323

<210> 32112  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-G9  
  
 <400> 32112  
  
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 gcctgtcacc ctcgcgagtc ccgacctccc gcagccgcgcg cacagatggc acccaaggcg 120  
 gagaagaagc cgggtggccaa gaagcccgcg gaggaggagc ccgcgacaga gaaggtggag 180  
 aaggctccgg cggggaagaa gcccaaggcc gagaagcgcc ttccggcggg caagtccaag 240  
 gagggcggcg agggcaagaa ggggaaaaag aaggcgaaga agtccgtgga gacctacaag 300  
 atctacatct ttaaggtgct gaagcaggtg cccccgaca tcggcatctc gtccaaggcc 360  
 atgtccatca tgaactcctt catcaacgac atcttcg 397

<210> 32113  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-H1  
  
 <400> 32113  
  
 cccacgcgtc cgcccacgcg tccggagatt cagagttacc tgggtctctat gtttctctag 60



cctaccccaa cttgcttggg ataaaaggct ttgttgttgt tgttggaatg taagattgtt 120  
 tgtttttgaa gccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180  
 aaaagataaa ctaaataaaa aacatagcta aaaa 214

<210> 32114  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H10

<400> 32114

cccacgcgtc cgcccacgcg tccgcccacg cgcccggtatg tatgtttgct ccctgcctgg 60  
 gatgccacac gtcgtcttcg gattcgtcag ctccctactg gcgtcagctc ccaactggca 120  
 gtcctataaa gtggatgacg cgaatgcgcc gagaatgatt cttctcgtta ttttctacgc 180  
 gaacgtcatc ttgctggctg aaattaagaa cgtcaggatc tacatcgaga cggcaactgc 240  
 cgtggtgata tcttacgtgt cactacttaa aatcagctgg agttacatct ggctcgttct 300  
 cttccccatt gtggcgatcg gttcatcgt tgcctctgtc aaggagctca gtcacgagga 360  
 cgaggccggt ggatcacatt cacaggagca gagcaatgaa ggtgaaagtg aaagcgaagc 420  
 tactacgtct tcatgggaaa aagttcatgc tggg 454

<210> 32115  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H11

<400> 32115

cggacgcgtg ggcgacgcgc tccgccagga ctgccaggcg ggctacctcg tcttccaggt 60  
 caaggctcac ggccgcgtgc ggtggaaggt cggcagctgg atctccggcc actaccacct 120  
 cttcgtcacc tgccccgctg tctcgtcac cgccggcggc aacggcgccc ccggcgcttc 180  
 cgggttcagg ttccagacca ccacgtactg ccacgtcgag gttaattag gagcgagagg 240  
 aagcagagac catggctacc tctctagctg ctgctcctgc cgttgcctgg tgtggtaata 300  
 actctctcta tctctctctc tctctctgtc cgctgctggc gttactactg cagtagtgca 360

gtgatgcggg atgtaaagga ggggtaaaaa aaattccttt cgttctagcc aaaagcaaaa 420  
ctacta 426

<210> 32116  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H4

<400> 32116

aattagtccc catgttcttc gaatggatct cttaattggt gagaggggtg cccaaacgcg 60  
ggatataagg catacccagt aaagcttaca agtaaaccag atatggagat ggcgactaaa 120  
gttgctgttt ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180  
atttacaact acaacggaat agtatacaaa gtcaacacca atgattaaat agaatttatg 240  
gctacacaaa ccgttgaaga tagttctaga cctaagccaa aacggactgg cgcaggtagt 300  
ttattgaaac ccttgaattc ggaatatggg aaagttgctc cgggttgggg gactactcct 360  
tttatggggg tcgcaatggc tttattcgcg atattcctat ctataatttt agaaatttat 420  
aattcttctg tttaactgga cggaatttta acg 453

<210> 32117  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H5

<400> 32117

aattagtccc catgttcttc gaatggatct cttaattggt gagaggggtg cccaaacgcg 60  
ggatataatg catacccagt aaagcttaca agtaaaccat atatggagat ggcgactaaa 120  
gttgctgatc ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180  
atttacaact acaacggaat agtatacata gttaacacca atgattaaat tgaatttatg 240  
gctacacaaa ccgttgaaga tagctctaga cctaaaccaa aacctactgg cgcaagtagt 300  
ttattgaaac ccttgaattc cgaatatggt aaatgttggt cattttgggt gactactcct 360  
tttaatgggg ttccaatggc ttttattttc gatattccta tctataattt ttaaaaattt 420

taattcttc

429

<210> 32118  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H6

<400> 32118

cccacgcgctc cggtcattta tcgcgatttt aaaacatcta acatactgct ggatgcggag 60  
tgtaacgcaa agctctctga ttttgggctt gcgaaagacg gacctgtagg tgataaaact 120  
catggttcta ctcaagtaat gggaacctat ggatatgcag aaccaaattt tgcaaggact 180  
ggtcttttac cttaaagaat ggtggctacc agtttcgggt tgggtgcttct tgagatgatg 240  
tcaggccgca ggtcgatgga caagaaccgc ccgaacgggg agcacaacct ggtggaatgg 300  
gcgcgcccc tcctaggcga gaggcaacgg ttctacaagc taatcgacct ttgcctggag 360  
ggcaacttct 370

<210> 32119  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H7

<400> 32119

cgccccccc gagcctcacc aatcgccggc cctccgcagg cagggaaggg cggttgggag 60  
gccggccggc cggagatctg attgctctta tcttctcccc tcccgttcat ccaatctgct 120  
gtcaccatat ctgatctccc tctccccctg attgcccgcg gtggccattg cctcgctcgc 180  
gtctccttcg ccgcgcttct aggaagattc ggcggcgtgc ccatttgctg gtcgtagcct 240  
taaccagttc ttccccaact ccgagctcct tccttgcttg ggagcagctg cacacacatc 300  
cgcccaggat attagttagc gtggaggatg gcgtccaggg acttcctccg cgtcttcggc 360  
gccggtgagg gggcgggccc gccgggggac gccggcgccg gccagcccga cgacgacgag 420  
ctc 423

<210> 32120  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-049-Q1-K1-H9

<400> 32120  
  
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 tccagtctcc accgatggcg atcaagaaca tgacggtggc ggcgacgacg cggctcgctgg 120  
 acgcggacat gacggtggac gagttcaagg agtggctgcg gcggttcgac acggaccagg 180  
 acgggcgcat cagccgcgac gagctgcggc gcgccctgcg tgccatccgc tcccggttca 240  
 cggggtggag gagcaggcag ggcatcagtt acgccgacgc tgacggcgac ggctacatcg 300  
 acgacagcga ggtcgatggc ctcatcgagt tcgcgcagaa gaacctcggc ctcaagatcg 360  
 tcgcctactg atctcacatg gggcgcgggc cgcggcggtc gnggggtggg acgcactagc 420  
 tcgccatgag c 431

<210> 32121  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-049-Q1-K1-G12

<400> 32121  
  
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 gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgctc gatgttgagt 120  
 accgctgctt cgtcggcggc ctgcctggg ccacggacga ccactccctc cacaacgcct 180  
 tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcaaaggt 240  
 cccgcggctt cggcttcgtc accttctaca cggaggaggc gatgctgaac gccatcgagg 300  
 gcatgaacgg caaggagctg gacggncgca acatcacctg caacg 345

<210> 32122  
 <211> 95  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D7

<400> 32122

cccacgcgtc cgccacgcg ttcgaaataa ataaaaaaaa aaaaaataaa ataaatatgt 60  
aggaaaaaaaa taaaaaaaaa taaaacttaa ataata 95

<210> 32123

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D8

<400> 32123

cccacgcgtc cgggtctaggt ctagctaggg tctggtctcg ctgccccgcc gcgcgcgcat 60  
tcacaggctt ctagacgttc cgaggaggag gggaggtagc cgccgccgca gccatggcgt 120  
cgaccaaggt ccagcgtatt atgaccagc ccatcaacct catcttccgg ttcttacaga 180  
gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 240  
ttatcggatt cgatgagtac atgaacttgg tcctcgaaga cgctgaggaa atcaacgtca 300  
agaaaaacac taggaaatca ctgggccgga tactcctcaa aggtgacaat ataactttga 360  
tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttggtg ctgcgttcga 420  
ttatctgtga cacaatgtac tcca 444

<210> 32124

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E1

<400> 32124

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ctgtgctgag aaggcctacc acgagcagct gtctgtggcc gagatcacca acagcgcctt 120  
cgagccatcc tccatgatgg ccaagtgcga tccccgccat ggtaagtaca tggcctgctg 180  
cctcatgtac cgtggtgatg tggcccccaa ggatgtgaat gctgctgtgg ccaccatcaa 240  
gaccaagcgc accatccagt ttgtggactg gtgcccaact ggctttaagt gcggcattaa 300

ctaccagcct ccaagtgtgg tgctgtgtg tgacctggcc aaggtgcagc gcgctgtgtg 360  
catgatctcc aactccacca gtgttgtgga ggtgttctcc cgcacgacc acaagttcga 420  
cctcatgtac gccaaagcgtg ctttcgtgca ctgggtatgt 459

<210> 32125  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E11

<400> 32125

ggatcccggg cgcccacgcg tccgcccac atactcttacc ttatcgtatc cttatttacc 60  
ttcaaaactt acatgggtact gtacctatta gacctcttaa cttacttgtt atacttacac 120  
tccatgataa ccattgtatc attttttttt taaccaatat tatatataga cttttatcat 180  
aaaaatgatt ttaaaatcta tgctcacata tatgatcact ttttatacac attttttatc 240  
ctttttctcaa tactgtatca aacacattat atactttgta aacatcttct attt 294

<210> 32126  
<211> 93  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E4

<400> 32126

cggacgcgtg ggccgacgct tctatcaa atttcttcta tttagaaatc taaattta at 60  
ggaaggggtc ttaaatttaa aagtcattaa tat 93

<210> 32127  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-049-Q1-K1-E8

<400> 32127

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ccgccgccgc cgccgccgcc gccgctatgc ctgccgcag ctccaggaagg tctgccccac 120  
 gccagctcc ccgtgctgct ccagtgagga acccgccaca gccagcacgc caggctcctc 180  
 ctccagctcc tggtcgagat ggtggtggct ccatgtttgg aggaattggg tccaccattg 240  
 ctcaaggtat ggcgtttggc acgggtagtg ccatggcaca cagggtgtgt gatgctgtat 300  
 taggtccccg gaccattcag catgagactg ttgcctcaga agctgctgct gctgccccctg 360  
 cccctccagt gatgaatgct gacgctngca gcatccattc taaggctntc caagattggc 420  
 tcaacaacta tggcagcgag at 442

<210> 32128  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E9

<400> 32128  
 ctcatcacca ccttgatgc agtttccta gcaacagtga tagtcctcct cctttggtgg 60  
 cacaagcccg cagtcgtggg gaaagccact gccgttcccg gcgacgagaa gccacggcga 120  
 cgactgccgc ctggggccatg gacccttccg gtcateggca gcatccacca cgtggtgcgc 180  
 ggcctaggac accgcaccat gatggagctg tcccgtcggc acggccccct catgttcctc 240  
 cgccttgggc aggtcccgac gctggtggtg tccagcgccg aggcagcgga gctggtgatg 300  
 aagacccacg acctcggctt cttgctccgg ccgaccacca gcgtcaccat cgaca 355

<210> 32129  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F10

<400> 32129  
 acccacgcgt tacgcgactc attgaccata ctagccaaac ttccgacttg acaatgtatt 60  
 ccgaccagat cgagccgggg aggtctcttc ttggagccaa aatgaggggc agggccacac 120  
 ttctaccca ctgaataagt ttaataacga tcaacgtagt gggattacac ttgcgccccg 180  
 actctccac ttatcctaca cctctgaagt catttcacaa attcggacta tactcaaact 240

caacagggtc tactttatgt gctgattgca tcaatcccg ttccttaa at gt 292

<210> 32130  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F12

<400> 32130

cccacgcgtc cgtgctgacg ctgcccgcg tgggcttccc gcacgacgcc gcgcgcgggt 60  
cgcgagacgcc caacagcccc gagaggtgaa aaccccggt cccggcctgg agtacgccca 120  
aggctctggcc caacagcaac ccgcggcccg caaccaagcc ggctggatcg gttggctgga 180  
cacgcttgaa gccgccgacc aagtgccgcg gctgggcaac tgggcgcacg gctttcaacg 240  
ggcctggatt gaccggtgga tcgaactaag gccgacc 277

<210> 32131  
<211> 463  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-049-Q1-K1-F2

<400> 32131

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tattggtaca ttctacataa tggaaacact gtgttcactt gggctggaaa tctgaccact 120  
gcattggacc aagagttaat ggaaaggcag cttgatgtta ttaagccaaa cacacagtct 180  
aggtcacaaa aggaagggtc agaaacggac cagtttttga gtttactggg aggcaa atct 240  
gagtactcag gccaaaaaat ggtgcgagaa ctgaaagtg acccccatct tttctcatgc 300  
atcctgtcga aaggcaat t gaaagtcaaa gaaatacacc actttactca agatgatcta 360  
atgacagaag atgttttcat tctggactgt cacacgagca tatttggttg gggttggtcaa 420  
caggtggatg ttaaaagcaa gttacaagct antggatgct ggg 463

<210> 32132  
<211> 360  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-049-Q1-K1-F3

<400> 32132

cccacgcgtc cgaccacgcg tacgcccacg cgtccggcca cgcgttcgca aatccccct 60  
tggccttgcg agggggctga ggggaggtgg tacgtggtag tggtagtggg agggatatata 120  
ggagtgtctt gcccatggag aaggcggggc aacaacgcca tgtcatcggc aggcagcagg 180  
caagaaggcg cccgcgctgg ggctgcagaa gcagaactcg gggtcgacgt gacatcgagc 240  
gcgacgagggc ttgggagcgc cggcgcaggg agcatgcgca gcgggggcac agcgtgtctg 300  
cgcgtctgca gcgtcacgga cgacgacctt gacgagcttc gaggatgcat cgaactgggc 360

<210> 32133

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F4

<400> 32133

cccacgcgtc cggagaccga gatctcgccg atagctagca tcatggcgtc caaggcgtc 60  
ctcgtggtag cgctcctgct cgccgccacc ttctcgcgg cctccgctaa cgagcaagcc 120  
caggcggcca aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcggctac 180  
ccgggggcacg gcggcggcgg cagcggaggc taccgggggc acggcggcgg cggcggcggc 240  
ggctacccgc actgccggtg gggctgctgc aaccgggggt accatggcgg ctgccggtgc 300  
tgctcgacc ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgaggtccac 360  
aactaaatag taatgagatg cgctgctact atatatacgg gtacgtatgc ccgatgggaa 420  
gcagagcaca cgcgtagtac gctc 444

<210> 32134

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-049-Q1-K1-F6

<400> 32134

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catcgacatc ctcatcgcca tcctcctccc gcctctcggc gtcttctca agttcggctg 120  
caaggtcgaa ttctggctct gcctcctgct cacttctc gcctatctcc cgggatcat 180  
ctacgcgata tacgttatca ccaaggacta gccagctagc gccgtaaacc gggacaaggt 240  
gagagagcta gctgatcagc cagcggagggt aatggagatg aacgtactgc tgagatcact 300  
ttaatttggc ctgttgctca atgtttctgg atggagactg aatctcagct gtgctgtgat 360  
tctgctatat agcttgtgcc gcctgttctc tattcactag tcggtgctcc cgcgtaatat 420  
ttctctcaga ctctngtgct atagtatgtg atgcatgcaa a 461

<210> 32135  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D5

<400> 32135

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agccaccacc gctactgcat gtgccaaggc gccttctaca cctacgacgc cttcatctag 180  
gccgccagca agttccccgg cttctgcacc accggcgacg agcaaactcg caggcaggag 240  
ctcgccgcct tcttctgcc gacgtccac gaaaccacca gtggatgggc gactgcttct 300  
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tactatggac gacgacccat acaactaac 389

<210> 32136  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F7

<400> 32136

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cggcgacatc ctcatcgcca tcctcctccc gcctctcggc gtcttctca agttcggctg 120

caaggtcgaa ttctggctct gctcctgct caccttcctc gtctatctcc ccgggatcat 180  
ctacgccata tacgttatca ccaaggacta cccagctagc gccgacatac cgcgacaagg 240  
tgagagagct agccgatcac acagcgtacg taatggagac taacgtactg ctgagatcac 300  
tataattagc cctgtcgatc aatgctactg gatggagact gaatctcagc tgtgctgtga 360  
ttctgctata ta 372

<210> 32137  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G1

<400> 32137

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caacggctac cggaggtccc gcgccggcga ccactaccac agcggcttca acagcaagtc 180  
cggcactgat gactaccggc gtggcgaaag tggtacaac aagtcggggc gcgattacca 240  
ctaccggcgc aacggcggcc atgggtacc 269

<210> 32138  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G11

<400> 32138

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gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 180  
tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccca 240  
ccgtcgtggc gaccgaggaa gcgccggtgg tggagacccc ggctccgccc gccgtcgtgc 300  
ccgaggaggc tgcccccgcc gccgaggcca aggtggaaga gccagctgcc ccggcggaga 360  
ccgagccagc tgccgtcgct gagcccgagg cggcccccggt ggccggcggat gaagagacgc 420

caaaagagga agagac

436

<210> 32139  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B3

<400> 32139

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tcgcgctagc gggggccaac tccgagggcg acgcgctctc aagcgctgcg cgcagcctc 180  
agggaccccg gcggcgtgct gcagagctgg gacccacgc tcgtcaacct ctgcacctg 240  
ttccacgtca cctgcgaccg cgacaaccgc gtcacccgac tagatcttgg taattcgaac 300  
ttatctggtc atctggtgcc tgagcttggg aaattggagc atctgcagta cctggaactc 360  
tacaagaaca gcattcaagg aacaatccct tctgagctta ggaatttgaa gaatctaata 420  
agcttggact tgtacaagaa caacatgttg gggaca 456

<210> 32140  
<211> 73  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B4

<400> 32140

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gtctgtccta gct 73

<210> 32141  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B5

<400> 32141

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 accccttcac cagggcgggg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180  
 cggcgatatc gtagaggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240  
 gcggctgccc gatgccacc gccgcgcca ggatggccac cttccgctcc ggattggccg 300  
 aagacgcgta gccgcggctg cagcggagga gtcgggcgt ggacttcagc agcgacggcc 360  
 tcatggcggc ggctgggtcg gggatcactc gtcgggcgt gtctcgctgt ggattggtgg 420  
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<210> 32142

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B6

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<210> 32143

<211> 380

<212> DNA

<213> Zea mays

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<400> 32143

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aggcgaaaat ataaaaaaaa aaaaaaaaa aaaaaaaaat actaaaaaaaa aaaatatact 120

ataaaaaaaaa ataaatataa taaaaataaa ctacaattaa aaaactactt gactattaaa 180

aactttcaat ttttgaaatc aatcctttta tagaacatat tttttaatgc gcatcccaaa 240

ttaaataag atggctcgac ttttaaaacc ttctgaactt taaaacatca tgaatcacta 300

atttaactcg ctttgatca aatcattttt tgcggagttg cagtattttc aacaagacca 360

gaccggttaa cttttcaaaa 380

<210> 32144

<211> 348  
 <212> DNA  
 <213> Zea mays  
  
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 cttaacatac ctctgggtcac attccatact tttactcctt atatattaca tataactatg 180  
 caatatataa ctttattaat tcctacctat gcttatcatc aggttgaact ctgaactttg 240  
 acttccaaaa ctgcacaatc atcacacgca tgtgcacagg accgaagttt ccagccagcc 300  
 aatgctgagc cgcactcatg gaattcgcgt gcccttttaa caattacc 348

<210> 32145  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-B9  
  
 <400> 32145  
  
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 ttgtaggtgg gttagattcc aatgtaaatg aggagtatct aaggcaaatt tttactctgt 120  
 atggagaaat ttcttatgtg aagattcctg taggcaagca ttgtggattt gttcaattta 180  
 ccagcaggtc atgtgctgag gaagccatcc gaatgctgaa tgggagtcag gttggtgggc 240  
 agaaagtctg gctttcatgg ggccgtagtc ctcaaaacag acaggcttct cagcatgatg 300  
 ccaacaacca gtataatggg aacagctatt atggatacca acagccgggt tatgaaggtt 360  
 atggctatgg tgctttcagt gcacaagaac caagcataca aaactactac ggatactc 418

<210> 32146  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-C12  
  
 <400> 32146

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caacagaaga cagaaacaaa tccactattg gttttacgtc aagcaatacg tagagtaact 120  
cccaatatag gagtaaaaac aagacgtaat aaaaaaggat cgacgcggaa agttccgatt 180  
gaaataggat ctaaacaagg aagagcactt gccattcgtt ggttattaga agcatcccaa 240  
aagcgtccgg gtcgaaatat ggctttcaaa ttaagttccg aattagtaga tgctgccaaa 300  
gggagtgggg gtgccatacg caaaaaggaa gcgactcata gaatggcaga ggcaaataga 360  
gctcttgac attttcgtta atccatgaac agaattctagg tatgtagaca catggatcca 420  
tacatctcga tcggaaaaga atcaa 445

<210> 32147

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C2

<400> 32147

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gtgaaaaaga tttctgctct gaagaggagc acatttctcc aataaatttc aaatcgctaa 120  
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180  
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240  
gaagtctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcaggt 300  
gtctatatat ataatatgat ggaagcagag aagaatggaa acattcttat gcaaaagtat 360  
gaggttggaa aattattggg gcaaggaaca ttgccaagg tataccatgc taggaacata 420  
gagacctctc aaagtgttgc tatc 444

<210> 32148

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C3

<400> 32148

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gtgaggaaga tttctgctct gaagaggagc acattttctcc aataaatttc aaatcgctaa 120  
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180  
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240  
gaagttctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcacgt 300  
gtctatatat ataatatgat ggaagcacag aagaatggaa acattcttat gcaaaagtat 360  
gatgttggaa aattattgcg gcaaggaaca ttttccaag 399

<210> 32149  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C6

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cgccgtgccg ctggggcgcg ccaccgcgcc cgggttcgcg cacgaggccg gcaacgtcac 180  
cgtcatccgg gccaccgtct ccgcgtccgc gctcgcggtc gaccccgccg cggccggctc 240  
cgacgtcaag aggtccggcg agttcccat cgtcctggac ctggagacca gggccggcgt 300  
ccgggttggc gcgctcagga ccaagaagat cggcatcctg gtgcactgcg acggcgtcaa 360  
ggtggccgcg cccgcgcccg cgccggccaa ggaga 395

<210> 32150  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C7

<400> 32150  
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aagttcctcg catctttcgc gtcccctacc cggaggagct actccacat gaacaaccgc 180  
cagcggcgcg gaccgtcccg gtgatcgatc tcagcggcga ccgcgcagcc gtgatcgacg 240



ccgtccgtgg ggcggcgccg ggggtgggggt tcttccaggt cacggggccac gcggtgcccc 300  
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 agggcagcga caaggcgccg ctctactcgc gagagcccgg gagggcggtc aagtaccact 420  
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<210> 32151  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C8

<400> 32151

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 gacaattggt caccggaagt gcttctaggg tttcacaagt tcctcgctgt tacctagtct 180  
 caaattatgt cccctccatt tctcgagata tgtgtggcag atttgcatga tacgtttggt 240  
 tgtttccatc ggacctgaag tcttcttggg gataggetcc cccctttgta tggtgtggct 300  
 ccaatccatg tgcgagcacg ctgtgtctgt cgtgacacct ggttcgtgag atgggttggtc 360  
 aaacttgatt ggtaggtgt gcgtggctgg aagagctgat agttatata 409

<210> 32152  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D1

<400> 32152

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 tctctactct gaagtctgaa ctcaatctca cacggatgat acacgaacta gggagatgtc 180  
 tttgttttcc tagggcgcc acggattagc ctgttcgcag ctgaatTTTT tttgtttttt 240  
 ttttttctgt tttcgctatc tgtattgtag tctactgtgca aaaaaaatcg ttttgattga 300  
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<210> 32153  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 32153

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ccaccatggc tagaggattg aagaagcatt tgaagaggct caatgcgccc aagcattgga  120
tgctggacaa gcttggcgga gcttttgctc ccaagccatc ttctggacct cacaagtcta  180
gggagtgcct gccactgata ctcacatca ggaacaggct caagtatgct cttacatacc  240
gtgaggatcat ttccatcctg atgcaacgcc atgtacttgt tgatggcaag gtcaggacag  300
acaagaccta ccctgctggg ttcattgatg tcatttccat cccaagacc aatgagaact  360
acaggctgct gtacgatacc aaggggcggc tncgncttca cccaatcagg gatgaggatg  420
ctaagttcaa gctttgcagg gttaggtctg                                     450
  
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<210> 32154  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-B12  
  
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ttgggggtcgg tcagaggacc ttgcctatga tcactctcta gtcactatc atactcttca  120
ccctgaaacg gctgatgcaa agattccagc tgctgccac gcggagctgg acaagatacc  180
acaccactga taagctcagg cagctaagca accacatcat cgaacatacc accatcgtct  240
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<210> 32155  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-D3

<400> 32155

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catgctgagc caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt 180  
catcgaggcc gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag 240  
gcgggagctc gccgccttct tcggccagac gtcccacgaa accaccggtg gatgggcgac 300  
tgctccgat ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga 360  
cccaccctac tatggacgag gaccatata gctaactcat aagtacaact acaggctcgc 420  
cgggcaagcg ctgaacctga acctggtggg cgaccgggac ctggt 465

<210> 32156

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H6

<400> 32156

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agctcgtgga caccacaaaa gccacacgtt tcgtcagag ataaacaaca gacaggcaaa 180  
agattacata cattactgcg cgtaacgtgt gcacatatcg atcgtatttc tccaaataact 240  
gaagctgctg ccgctcgtgg ggacctcaca gcacgtcctt ggggacgaag ctgctgccgc 300  
cagcgatggt ggtggtggtc tcgtcggcca gccaagccc accgttggtg gtgaagcagt 360  
actccggggc ctgccacgcc gcgttctcca gcaccgctcc caccttaaag ctcataacgt 420  
aggctgtcct acctgtgtag aagaccact tgacgggtcg cttg 464

<210> 32157

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H7

<400> 32157

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 gcacatatgg attgtttttg gaagaaaggt tggagtgcct catagttctg aagtatgatg 180  
 ttgaagctga gcgtttgtcc aaacaaggtc aaggctcctga aaagggtcac agtagaacca 240  
 gagagtggga ttcacaggat ctgttagagc agctgccagc attgcagcag ttactatacc 300  
 gactcgttgg atgtcggcct gaaggagctg caaataataa ctacctgggt caatacgctt 360  
 tagctttggg gctaatagaa agctttaaaa tttattgtgc tataaatgat ggaattatca 420  
 accttgttga taagtttttt gagatgccaa gacatgaagc acataaagct cttgaaatat 480  
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<210> 32158  
 <211> 494  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-048-Q1-K1-H8  
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 tgatgagggg tttcaagcgg ttgatgcagg accctgcggc cggcataagt ggcgccccgc 180  
 aggataacaa cataatgctg tggaaatgctg tcatatttgg acctgatgat acccogtggg 240  
 atggaggtac gtttaagctg actctccagt ttaatgaaga atatccaaac aaaccaccaa 300  
 ctgtgcgatt tgtttctagg atgttccatc ctaacattta tgctgatgga agcatatgct 360  
 tagatatact gcagaatcag tggagtccga tatatgatgt agctgcgata ctcacgtcaa 420  
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 tgttcagcga gaac 494

<210> 32159  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-048-Q1-K1-H9

<400> 32159

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgcgcg cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240

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accggccgc 369

<210> 32160

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32160

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cggcgtggcc ggtcctgggg ccgggcgtcg ccggcgccgt attcggcgca ggctggtggt 180

tttgggtcga cgccgtcgtc tgcagcgccg ccgccgtgcc attcctccac tacctcccag 240

ggttcttcgc ctcgttcgcc gcgctcatgt tcaactgcgt caaccgggag gacatcggcg 300

atggctacta ctaccgtac gacgactccg agtggaaggt gaagctctgg ctntttatatt 360

cgtacgtggt gtcgtttggt tcgctggccg gngcagtggg tttcttggtt caagatgcgc 420

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<210> 32161

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A11

<400> 32161

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aggaaaaaaaa aaaaaaaaaa gtaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaggggtg 120  
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gtggatttaa atcgaattca ttggctgaag ttttaaaacc ttgaaattgg taaaatatgt 240  
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<210> 32162  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-049-Q1-K1-A12

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gcaagagaac gaacaagagg agttttgact cttcaatcat tcattcgtgg tgagaatgca 180  
cggcaaattt actcctcttt gttgaggaaa catagagccg cagttgtttt gcagagaaat 240  
gtgagatggt ggcttgcaag aaggatattc ataaatgtcc ggaaggcctc agtgataata 300  
cagtctggta ttcgtggcag tcttgttcga agatgtaatg gcaatattga tctaataaat 360  
gtgctaagag agtttgaatc anaacaggta caataactgt gtgtgcgcgc gcgcccccta 420  
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<210> 32163  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A2

<400> 32163

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gctaaagaaa atgccctggt tgagagcaag gccatcgaca tcaaccggg gcagctcaag 180  
tgctgcacca actgcaactt ctccttctcg gggctctaca cctgcgacga cgtcaaaaag 240

gactgogacc ccgtctgcaa gaagtgcgtc gtcgccgtgc acgcctacta cttgggcaac 300  
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<210> 32164  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A3

<400> 32164

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atagtgtcga attggatcta tcccctgagc ataggagaaa agtatcaatc tgtacagtgg 180  
atccaagtat tctataaagc atgtatctc caatttccca caagcgagaa tggcatgata 240  
tgatggatga aatggctgtt gcggtcaatt gtctttcaag gatcaattgt ctttcaagaa 300  
ccacacttat gtattggttt gtgtgcagtt caagctctgc aagggtgaggt ctgttcagtt 360  
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ccctctcatc aaggccaacg acaccatcaa gatcgatctg gagac 465

<210> 32165  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A4

<400> 32165

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cagtttccca ctctgagggg gccgccacaa acatttcttg caactatgga ggagtatgtg 180  
aaggaggctc cacgcatggt ccagttcga gaacccttg aacttctga gaggttctt 240  
cttacatata aacctgaaga atcggaggac attcgtgagc ctgcttctgt tgaagaggaa 300  
aatgcaccag ttgaagagcc tgttctggta ccacctgtta ctgaagttgg ttcaccttcc 360  
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<210> 32166  
<211> 401  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-049-Q1-K1-A5

<400> 32166

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gcgacttcag gatcaccggc agtaccacg acggcgccctg cgctgtctcc ctcggcgact 180
ccgacaccgt catcgccaag atcgaccggc ggttcagcgt ggtcagcgcg ctgctgggga 240
agaactcgta cagcgtcacc gtcaaccggg ggatcgacta cgccttcgtc gtcgcgctcg 300
tcgtcctcct cgacgagatg cattaccagc gatgacacgc acgcttcagt tttggttcca 360
agccgngcgc cttcccttct gctgatgcgt ggaatcaacg c 401
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<210> 32167  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A8

<400> 32167

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tctccaaggt gccattcctt tcccgctcgg atctacgtcg cgttggtgca tgtctccaat 180
tggattttgg tggagggaag aagaaggag gaaaggggga ggattcaagg tgattttgag 240
attgtacctt gtttaattgt gttgtaatcc aattgattat atgtttacct atccgaatcg 300
gtagagggtgc tgcctgaaa ttttgtgggt gggcgaacag cagtagttct agggatttct 360
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<210> 32168



<211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-B10  
  
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 caccctgggc cggctgatgc aaaacttcca gctgctgccg acggcggatc tggacaagat 180  
 cgacaccact gataagccca ggcagttcag caaccacatc gccaaacatg ccaccatcgt 240  
 ctgcaagccc ctctaggcct agaaatcaat gcgtgtttcc tgcacgcgcc ctgcgatatt 300  
 aaccactatg tattttctct ttaacatgta tgatgggtac ttatctacta agatgagatg 360  
 gatatttga tcgtaaaatg cac 383

<210> 32169  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-049-Q1-K1-B11  
  
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 accctggggcc ggctggtgca gaacttccag ctgctgccgc cgccgggggt ggacaagatc 180  
 gacaccacgg agaagcccgg ccagttcagc aaccagatcg ccaagcatgc caccatcgtc 240  
 tgcaagcccc tcgaggccta gaaatcaatg cgtgtttcct gcacgcgccc ccgcagatga 300  
 agcactatgt attttctctt tttttgtgt gttgtgtttt ttttactaag aggagatgta 360  
 tttcttggtc gtaaaatgca cttagtcaaa tggatcgaga ttatgttgat catt 414

<210> 32170  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-048-Q1-K1-H2

<400> 32170

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agcttggttc tatgtttctct gtcaaccaga gaaactcaaa aagctgcgca atgaggtggg 180

cattaattgg tggttgcacc aatacttcaa gtcagttggt ttcaatgtat gaggacaggt 240

tcgagttata tgttctatgc agcaaaaaat acgaaaaaac agccgacaat caagctgaga 300

gggcaaattg gtggaggatt gcatctgggc agcctaattg cttactctt gattatgtta 360

acatcagtc cttttccctt cagcaagaag gacaaaggaa t 401

<210> 32171

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E8

<400> 32171

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gagcatgggc gtggtggacg acgagatacg cgtggggccc gaccggtcgt cgcagctcgt 180

cggccggtac cagggcgctc tcttcggcac gagcgtgcag ctgggcgccc gctacctgtc 240

gtccatcacg ctggtgttca ccgccggcga gtacaacggg agcacctgt ccgtgcaggg 300

gcccctgctc gggttcacgg gcaccatcga ggcgcgcgtg gtcggcggca ccggcaagtt 360

caggctggcg cgcgggtaca tgcttttcaa gatgataagc aagccgacgc cggagacgga 420

cgtcaacgag atcaacctgt tcgtgctcat gcactccgct ggcaagtact agcgcacaca 480

ccttg 485

<210> 32172

<211> 414

<212> DNA

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<223> Clone ID: LIB3068-048-Q1-K1-E9

<400> 32172

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 tcgcgctagc gggggccaac tccgagggcg acgcgctctc ggcgctgcgc cgcagcctca 180  
 gggaccccg ggcgctgctg cagagctggg accccacgct cgtcaacccc tgcacctggg 240  
 tccacgtcac ctgcgaccgc gacaaccgag tcacccgcct agatcttggg aatttgaact 300  
 tatctgggtc tctggtgcct gagcttggga aattggagca tctgcagtac ctggaacttt 360  
 acaagaacag cattcaagga acaatccctt ctgagcttgg taattggaga atct 414

<210> 32173  
 <211> 76  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ttgtgnnaat cgcaac 76

<210> 32174  
 <211> 197  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-048-Q1-K1-F11

<400> 32174  
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 aaagaatttt actgtgtaca agctagtgtc aagtgttgtg catctttgac tgtagtgtcg 120  
 ctcaattctg aacatctatt aagccacttt tggtgctatg ctaataaccag tctgagagac 180  
 actgatgttt ttaacag 197

<210> 32175  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-048-Q1-K1-F3

<400> 32175

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aaggaaaagg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaac aaaaattttt 120

ataacacaaa aaaaaaaaaa caaaaaaaaaa agggcgcccc ccctaaaaaa cccaacctaa 180

ccaacccaaa catccaacca caaacacccc caatagggcc cccaaaatca aatccaaggc 240

ccgccagatt aaaaacgcct aaacgggaaa aaccggggag aaccccaact aaaacgcagg 300

ccaaaacaac cccctatccc caacgggggt aaaacaaaaa agc 343

<210> 32176

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F5

<400> 32176

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ggcacgcgtc cgcccacgcg tccggttcta gatcgcca 98

<210> 32177

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F9

<400> 32177

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gggcgtggtt tgcgtgccct ctccagggcc cagattgact ctgttctgga tcttgacagg 180

tgcacaattg tgtccgagct cttcaacaag gatttcgact catatgtcct ttctgagtca 240

agcttggtta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 300

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aagtactccc gtgggacggt catctttcct tgcgcaca 398

<210> 32178  
 <211> 474  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-048-Q1-K1-G1

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 ctcagattat cttcctgtat cagaactatt accatctatc aagaacagac ccttatgtta 180  
 ttcccattga gcctgctgct agtggtggaa tgaatggatt cctatgttta tctgaaagga 240  
 actggtatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gctcagaaca 300  
 gagttttgaa tgctgcctat ctcaatcctc agtatcacia acacatccca gagcctncag 360  
 cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttcctgtgt 420  
 tgtggcatca agataatagt cgtcgacaag taagagaaaag gcctcagggt tctg 474

<210> 32179  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G11

<400> 32179

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 tgctgggcaa gtacgagctg ggccgactgc tggggcaggg caccttcgcc aaggtttact 180  
 acgcgagggga cctgagcgcc ggcgccggca cgggtccacag ctgcagcgta gccatcaagg 240  
 tgatcgacaa ggcgcggctg cggcgtagcg aggggatggt ggagcagctg cgccgggaga 300  
 tctccatcat gcggatggtg ctgcacccca acgtggtggg catccgggat gtgctcgaca 360  
 gccggttccg cgtctttcaa gtcattggagt a 391

<210> 32180  
 <211> 331  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G12

<400> 32180

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gaccggctcc atctatcaca aactcacgct acacgtacgc tgcgaatgcg atagctatat 120

ctatagcgat acgtacatc tcaaattact ggactgcgc cgtacaacta caacgactgt 180

gacaaccata accctaccga tatcaatctt aatggactag atgcacattt cgccatctgc 240

cgctatcgca ataacgcca caccataat cattgccaac agtaacacat tctcaatcgc 300

gaatgggact cgcactctcg ctgtacatta a 331

<210> 32181

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G3

<400> 32181

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tgctctgac 70

<210> 32182

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G4

<400> 32182

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gatcatcatt gacacctacg gtggctgggg agcccatggg ggtggcgctt tctccggcaa 120

ggaccaacc aaggttgacc gcagcggagc ctatgtcgca aggcaggctg ccaagagcat 180

cgtcgccagc ggccttgctc gccgcgcat cgtccaggctg tcttacgcca tcggcgtgcc 240

cgagcctctc tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat 300

cctcaagatt gtcaaggaga acttcgattt caggcctggc atcatcatca accttgacct 360

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cgaccctgac t 431

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<211> 492  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-048-Q1-K1-G7  
  
<400> 32183

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cgggcggcaa ggccccgagg aagcagctgg cgaccaaggc ggcgcgcaag tcggccccctg 180  
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tccgcaagta ccagaagagc acggagcttc tcatccgcaa gctgcccttc cagcgcctgg 300  
tccgcgagat cgcgaggac ttcaagaccg acctccgctt ccagtcctcc gacgtcgccg 360  
cgctgcatga ggccgccgag gcctacctcg tcggcctgtt ctaggacacc aacctttgcg 420  
ccatccacgc caagcgcgtc accatcatgc ccaaggacat ccagctcggc cggcgcaccc 480  
gcgggggagcg cg 492

<210> 32184  
<211> 488  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-048-Q1-K1-G8  
  
<400> 32184

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aggtcttact cgcggtagca gtctgacagg agcaactggt aatggtgtgc ttggagaagc 180  
tatcttagat cagtctgatg agcatgtag cagtgccttg aatcacagga aagggaacct 240  
tgtattggaa catgatggta gaaatggttc ggtagcgtct tataggggag ttctttcaga 300  
agaggaccgt gattcttatc ccggccatgc tcggaaggac tctgctgaaa gtattgggag 360

tgatttgagt tctttaagag gaagtgaatt atctgttcca ggggctagta attccctttg 420  
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 gccatctt 488

<210> 32185  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G9

<400> 32185

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 ccgagtggcc tgtcaggcgc tgcgtgcgtc acgatgcggc ccctgttcac cgtcaaggcc 180  
 atccagcccc agaaggctac gtaccagggtg gtgcagtcta tcaactgcta ccccttcac 240  
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<210> 32186  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-048-Q1-K1-H1

<400> 32186

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 cgtcaagggc atcaagggcc gcctcaaccg cctcccgtcc gcctgtgtcg gcgacatggg 180  
 catggccacc gtaaagaagg gaaagcccga cctcaggaag aaagtgatgc ccgccgtcat 240  
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 tgctggagtg attgtgaatc ccaagggtga gatgaaagg tctgcaatca ctggacctat 360  
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 agagcttggt ggaatgtgtt agacttgagt atgatcatc 459



<210> 32187  
 <211> 489  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E6

<400> 32187

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 aaggtggccc agacagcacc agagaaaccc gtcctctcca acggagtcgc caagaccggt 180  
 taactcgacc gtgcaaccag agctccatag ccagggtggg gtgggtgtcc tgaagactca 240  
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 ccataagcgt tgctcgatct cctcatcgct actggatgga gagcagttgg ctagttgtta 360  
 gcggtttccc tagtttctct tctctttgtg ttccccgggt cagtttgctt atagccccga 420  
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<210> 32188  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H10

<400> 32188

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 tccgtatcaa ctgccattac agaaaatgat gttgttgctg ctgctgtttt gtcgggtaac 180  
 cgtaacttcg agggtcgtgt gcacccttta actcgggcta actatcttgc ctcaacacct 240  
 cttggtgttg cttatgcact tgctggaaca tgtgatattg attttgagaa agagcccatt 300  
 ggatttggaa aggatggcaa tgaagtctta cttcagggat atatggccct tgacagaaga 360  
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<210> 32189  
 <211> 475

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-048-Q1-K1-C6  
  
 <400> 32189  
  
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 gagctgggtcg agctggggac ccccttcggc aaggctcgta acaccaagtg cggcgtcggc 240  
 gccaacccgca atcaggctta tatcaaattc ggagcccaaa ataaagctat tgccatgata 300  
 tcatattatg catcgtcaac agagccagca caggtaagag ggaaaaatgt gcaccttcag 360  
 tactcaaata cacaggatat ggcaacaaca aggcaactgg agaaggttca ggcaacgttt 420  
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<210> 32190  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-048-Q1-K1-C7  
  
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 atcctggcgc tatggttgac gttcgatgtt gtcagcgcca tcaacgcctt gcctctgctc 180  
 cccaagatcc tggagctcgt tggcctcggc tacaccggct ggatcgtgta ccgctacctc 240  
 ctcttcaagg aaagcacgat agagctggtc gacgacattg agaccctcaa gaaaaagatt 300  
 gctggaactg cagaataagc gctagctctc gtggaaagct ttagaaccaa cgactagagg 360  
 ggccg 365

<210> 32191  
 <211> 475  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3068-048-Q1-K1-C8

<400> 32191

gaaaaaaaaa acacacacac acacacaaag cgcacttttc aaatcgacaa aggggaaagg 60  
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cgttgtctcg ccgccaccga cccctgcggc cccagccgtg ggcgccctcag acccgcccct 180  
gcagcctgct gctgacagcg cctcaacgga gaagggtgtct gctccggcgc cggaggtaag 240  
gtccccggga ttccaggcttc ttggagagga cacttccgtg cacaaatccc ttgggggcgg 300  
taaaactgct gacgttctgt tatggaaaga caagaaaact tctgctgttg taataggcgg 360  
cgcaactgtc atctgggttc tgttcgaagt gcttgattac cacctnctga cctgatatc 420  
ccatgtactg attggtgtgc ttgccacctt attcctgtgg tccaaagcaa ccacg 475

<210> 32192

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D10

<400> 32192

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catcgacggc gtcgccatcc gtgcgctgta cccgcccgcg ctcgccaggc gggcgggggg 120  
aaacctgtc aagaacggcg ggttcgagga gggcccctac ttctgcccg gcgcgtcctg 180  
ggcggtgtc gtcccgccca acatcgagga cgaccactcg ccgctccccg cctggatgat 240  
cgtctcgtcc aaggccgtca agtacgtgga ctccgcgcac ttcgccgtgc cccaaggcgc 300  
gcgcgccgtc gagctggtgg gcggccggga gagcgcgctc gtgcaagaag gtgcgcaccg 360  
tgccccgtg 369

<210> 32193

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D11

<400> 32193

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 caacaagcta attaaggccg gtccatccct cttctagctc gtttcattat ccatggctga 120  
 tgagaagcac caccaccacc acctgttcca ccacacgaag gacgaggagc aggccgcggc 180  
 cggcgggtac cgcgagtccg acgagtacac ggaggccact gtgacagagg tcgcgtccac 240  
 gggcgagaac gagtacgacg agtacaagaa ggatgagaag cagcacaagc acaagcagca 300  
 cctcggcgag gccggcgcca tcgacggcgg cgccttcgca ctctacgaga agcactacgc 360  
 gaaaaacgac ccggagcac 379

<210> 32194

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D2

<400> 32194

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 cggtcttcgcg ctctttctcc cggccatcgg gcccttcaac ggcggtgtgc gccgcctctg 120  
 cgccgcgctc ggcgccgctc tgggtgtccg caactaccgc ctggcccccg agcaccgctg 180  
 gcccgcgcgc tacgacgacg gcgtcgacgc gctgcgcttc ctgacgccc gcggcggcgt 240  
 cccgggcctg gacgacggcg tgcccgtcga cctcggcacc tgcttcctgg ccggggagag 300  
 cgcgggcgga aacatcgtgc accacgtcgc caaccgctgg gcggcggcgt ggagccgtc 360  
 cgcgcgggcc cttcgcgtcg cgggcgtctt ccccgctgcag ccctacttcg gcggcgtgga 420  
 gcgcacgccg tcggagctgg agctagaggg cgt 453

<210> 32195

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D3

<400> 32195

cccacgcgtc cgcccacgcg tccggtgcta gtggtgacta cccagactgc actgaccaag 60  
 cttatgaaaa ggcagttgcc gatggtgcgg atgtcattga ctgtcctgtt caagtgacta 120

aagatggcat actgatatgc atgaactctg ttgacctaat ggatgttact actggtgcaa 180  
aatcacaatt tgcttcgcaa gtgactacca tcaacagtct gaaggctggg tctggagtct 240  
ttaccttcaa ccttacttgg gatgatatt 269

<210> 32196  
<211> 333  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-048-Q1-K1-D6

<400> 32196

aaaaaggact gcgaccccggt ctgcaagaag tgcgtcgctcg ccgtgcacgc ctccctactcg 60  
ggcaacaaca agttcaggtg caccgacacc ttctctggca tgtgcgggccc caagtgctag 120  
atcagagagg aagaacgcgc gctgctgcta gctgctatag ctctcgttctt ccgccgncgg 180  
ccggtgcatg gttcacgtac tgtgtgttgt gctactacga tacgtactgg cttcttgtgt 240  
gttgggttct tggtcttctc tcgacagtgc accttgccgg ccaacaataa accgtgggtg 300  
gccatgaata aatagtacta tgaagttatt ggc 333

<210> 32197  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E10

<400> 32197

ggaagaaccg agagcgctcc ggaaatgtcg gcgggtgagc tgcggttgga gctggacgag 60  
ctgcggcggc tggagagcct cgccaagcac ccccgcgctc agatcctcct cgccaacgaa 120  
atccgcaacg ttgaagcgaa gttggcgaag gcaaccgaac catcgctga gccactggcg 180  
gcggcttctg cgccagcgcc cgcgcccgtc gcgctcctg ttttaagcta cgtcactctt 240  
gggtcgttca gctgggagca ggacaacgag aagattagga tatatgtttc ccttgaggga 300  
gttgagcaag agaaggtgga gactactttc aagccaacat cagtggatat aaagtttcat 360  
gatgtcaaag gcaagaatta ccggtgtgct ataccaaagc tgaac 405

<210> 32198  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-048-Q1-K1-E11

<400> 32198

ggcggcgaga agaaggggaa gaagaaggcc aagaagagcg tggagaccta caaaatctac 60  
atcttcaagg tcctgaagca ggtgcacccc gacatcggca tctcctccaa ggccatgtcc 120  
atcatgaact ccttcatcaa cgacatcttc gagaagctcg ccggcgaggc cgctaagctc 180  
gcccggtaca acaagaagcc caccatcacc tcccgcgaga tccagacctc cgtgcgcctc 240  
gtcctcccag gagagctcgc caaacacgcc gtctccgagg gaaccaaggc cgtcaccaag 300  
ttcaccagca attgagcagc ctncagcgtc cacggatttg ttaggtctcc ccttcttaca 360  
agggttcttc gtctgtctct ctacccttnc cctccccgcc tatgtatgtg ctgtgaaatc 420  
gttgatgttc tc 432

<210> 32199  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E12

<400> 32199

gtcttccccg gcctcgtcat tcggatcaca ccgtccaagc ccaggtagat cgggtggcgat 60  
ccatcggtcg tcgtgaaccg aacagaatgc cgtcgctgac ttgctgcggt gtcgtcaagc 120  
accccgatgat ctgcatgccg agtacgtact acggtgtgca gactgcactg cacagggatc 180  
ggagag 186

<210> 32200  
<211> 477  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E3

<400> 32200

ctcaagtcac agattgcaga tagcaaagca agctattggg aacgacgctc cgacaaccac 60  
 cgcacgcctc aggtttgggt agtagacagc atcgacgacg aggaacagaa gatggcaccg 120  
 aaaggagccg tattcgtctc aatctcacag ttccccatca agaaaatccg caaggattgc 180  
 acctacctga gcactccagc aatgaagatc cctgaaacca tgcaaaatat ccatgcctgc 240  
 gagaactggc tgccaagacg ggtgatgagc gcctggcgca tcggcgggat acttcacgcc 300  
 ctggaagggt ggaccgtgca cgagtgtggg gacgccatgg tgcattgctga gaaagcatgg 360  
 tcagctgcta ttaggcacgg attcgttcct ttgacgaaag cctgaaagcc tgtacgcaac 420  
 tctagacgcc attcgacgat ggctggaaaa ctacgtttca gcaatcggtg gcacaaa 477

<210> 32201  
 <211> 485  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-048-Q1-K1-E4  
 <400> 32201

ctcccacttt actcctatcc actgcggcct ggacgcgtgc gagaggcttg accaagcagc 60  
 agcagcagca gcagcgatgg cgctctgaa gctgtacggg atgccgctgt cccccaacgt 120  
 ggtgcgcgtg gccaccgtgc tcaacgagaa gggcctcgac ttcgagatcg tccccgtcga 180  
 cctcaccacc ggcgcccaca agcagcccga cttcctcacc ctcaaccctt tcggccagat 240  
 cccggctctc gtcgacggag acgaagtcct cttcgagtcc cgtgcgatca accggtacat 300  
 cgccagcaag tacgcgtcgg agggcacgga cctgctcccc gcgacggcgt cngcggcgaa 360  
 gctggagggtg tggctagagg tggagttcca ccacttctac ccgaacgcgt cgccgctggt 420  
 gttccagctg ctcgtgaggc cgctcctggg cggcgcccac gacgcggctg tggtagacaa 480  
 gcacg 485

<210> 32202  
 <211> 492  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-048-Q1-K1-E5  
 <400> 32202

gcgctcaagt cacagattgc agatagcaaa gcatgctatt gggaacgacg ctccgacaac 60  
caccagacgc gtgaggtttg gctagtagac agcatcgacg acgaggaaca gaagatggca 120  
ccgaaaggag ccgtattcgt ctcaatctca cagttcccca tcaagaaaat ccgcaaggat 180  
tgcacctacc tgagcactcc agcaatgaag atccctgaaa ccatgcaaaa tatccatgcc 240  
tgcgagaact ggctgccaag acgggtgatg agcgctggc gcatcggcgg gatacttcac 300  
gccctggaag ggtggaccgt gcacgagtgt ggggacgcca tggatgcacg tgagaaagca 360  
tggtcagctg ctattaggca ctgattcgtt cctttgacga aagcctgaaa gcctgtacgc 420  
aactctagac gccattcgac gatggctgga aaactacgtt tcagcaatcg gtagcacaaa 480  
ttcttcccag ct 492

<210> 32203  
<211> 487  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-048-Q1-K1-C2

<400> 32203

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agccatggcg cggatgctng cgctcgtctc cctccttctc ctcggcctcg cctccgccgc 120  
ctccgttgcc gatgcgccct tggatcgtcg gcacaaaagg gtttcgctct cccgccccaa 180  
gccgggcgta gagcgcgctg ccgtctccct ggacctatac aaccagggat ccgagactgc 240  
ctatgatgtg tcaacttaacg acgactctgg cccaacacaa gcttgagatc ttgccactgg 300  
agagaactcg acgacattga aaaggcttga ccctggtgcc actggtacac acacatatgt 360  
cctggagacc aaaacacagg gcagtgtcca ggggtcacca tctattatta cgtaccgtgt 420  
tcccacaaag actgctcttc aggaggccta cttaactgcc atcttcccac tggatattct 480  
cgctgag 487

<210> 32204  
<211> 452  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-047-Q1-K1-H12

<400> 32204

cccacgcgtc cgctgtcgat ccaattgtca cttgctctcc ctccaacaag ctaattaagg 60  
ccggtccatc cctcttctag ctcgtttcat tatccatggc tgaggagaag caccaccacc 120  
accacctggt ccaccacaag aaggacgagg agcaggccgc ggccggcgagg tacggcgagt 180  
ccgccgagta cacggaggcc acggtgacgg aggtcgtgtc cacgggagag aacgagtacg 240  
acgagtacaa gaaggaggag aagcagcaca agcacaagca gcacctcggc gaggccggcg 300  
ccatcgccgc cggcgccctt gcactctacg agaagcacga ggccaagaag gacccggagc 360  
acgcgcaccg tcacaagatc gaggaggagg tcgcggcggc ggccggcgtc ggctccggcg 420  
gcttcgcctt ccacgagcac cacgagaaga ag 452

<210> 32205

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H2

<400> 32205

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tctccagggtg ccaggtctt cgcgggtccc tttgccgccc acgagcacca gccaggaaga 120  
aaagaagctg aaccatgggg aagagaaagt cagctgctaa gccacctcct aagaagcgga 180  
tggaacaagct tgacactgtc ttttctgcc cattctgcaa ccacgggagt agtggtgagt 240  
gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt caggaaaact 300  
tcagcacaac tggttaatgca ctactgagc ctattgatat atatagtga tggattgatg 360  
agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc cccatgcgat 420  
gaaac 425

<210> 32206

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H7

<400> 32206

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ggtgtgtcga aaaacatgtc tgtgattttg ttatatgaat gtaacgcgca atgaaacata 120

caggactagc tgcttgcttg acgatgcgtt tgcgtgtatc cgtataaatt aaaggctata 180

agccacaata aaaaggatta tgacttaaaa gcgttcaaga aataaaaaaca cacaaaagaa 240

aatataagcc aatggcattt aaaaccaagc gcgatgacca atttgtgtga atcaacggaa 300

tcctctcgaa ctaggttgaa attactataa aggggcggcc attttaaagg gtcaaactta 360

actgtcttac gacggactat atta 384

<210> 32207

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H9

<400> 32207

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catgaatatg cccaagagat tagagagacg gccaacctga gtatcttgct ctggttcggg 120

gttttgctg cttatgaagc tgtgtatggt gattctgttg ttgtatgttt atgagtaggc 180

tctgactagc gaggatattc tgagtgtaga acgtcgaatc tagatttttt gagggctctga 240

tgttgtttgc cattgtcggc cggcattttt gtattgctta ttgcgaggat tttcgtttct 300

tgacgcctgt ttctaggac atcatgattg gacatttgga atgcaaaca tttctttgtg 360

gtgttggtt 370

<210> 32208

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A1

<400> 32208

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gagatgtttg atctgcacaa tgtgtcata tctatacctc tgctgcagt tcgggaggct 120

ccaagtgtca aacagattga tggaaagtgg aagtt 155

<210> 32209

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A11

<400> 32209

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tgtgatcaaa gtagtcccag gtggaaaagt tgcttctgat ggattcgtta tttggggcca 120

gagccatgtg aatgaaagca tgattactgg agaatacagg ccagtagcga agaggaaggg 180

cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240

tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagttcg cacaaatggc 300

aaaagctcct gtccagaagt tcgctgatca gatattctaga gtctttgtcc cactgggtat 360

cgttctctct ttgcttactt ggcttgtgtg gttcttagct gtgagattcc atggttacct 420

atacttatg 429

<210> 32210

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A4

<400> 32210

cccacgcgtc cgcccacgcg tccgcccacg cgcccgccca cgcgtccgcc cacgcgtccg 60

cccacgcgtg cgcccacgcg tccgctagtt ctagatcgc 99

<210> 32211

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A6

<400> 32211

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agtatggggtc ttgacctatc taaaggtatc gttcgcaaca accttgagta tggcttggtta 120  
aagccttcgt tgagcaaagt gaaa 144

<210> 32212  
<211> 84  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A7

<400> 32212

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aggaaaaaat tataaaaaaa aaaa 84

<210> 32213  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B10

<400> 32213

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gagccatgtg aatgaaagca tgattactgg agaatacagg ccagtagcga agaggaaggg 180  
cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240  
tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagtccg cacaaatggc 300  
aaaagctcct gtccagaagt tcgctgatca gatattctaga gtctttgtcc cactgggttat 360  
cgatctctct ttgcttactt ggctagtgtg gttcttagct gggagattcc atgggtt 416

<210> 32214  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B11

<400> 32214

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taaagaaaaa aaaaaatgct aaagctagtc tttaaagata atcaagaaca aactgagaac 120  
 tgagacacaa acaaggggtg caacggtttt caggattcga gatttcttgt cccatgggtg 180  
 aaagctttta ccatctatat cgggtcagtt aaataagtgc aatggccttg tttttaaaaa 240  
 cctgttaatg ggaaaaccct gggggtttcc aaatttaatc cccttgaaaa aaatcgccat 300  
 ttgccaggtt gagaaatttt gaaaaag 327

<210> 32215  
 <211> 477  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-048-Q1-K1-B2

<400> 32215

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 atcgtgaaga agcgggtcaa gcagttcaag aagccccatc ttgaccgcta taagtgcctt 120  
 aagccaagct ggcgccagcc aaagggtatt ggactccgtg tcaggaagaa gttcaaggga 180  
 tgcaccttga tgcccaacat tggttacggc tctgacaaat caaccaggca ctaccttccc 240  
 aataagttca agaagtttgt ggtgcacaat gtctctgagc tggagttgct catgatgcan 300  
 cacagaacct actgtgccga gatcgccac aacgtttcaa ccaagaagcg catggagatt 360  
 gttgaacgtg ccgcgcagct cgacattgtg gtcaccaaca agctcgccag gtcccgcagc 420  
 caggaggatg agtagtctgg tttcttgtca taacggncaa ctagatcctg ccattcc 477

<210> 32216  
 <211> 490  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B4

<400> 32216

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 cagcaccagc accagcacgt cgtcatctga ataaccagc ccagtccttg gactgcgaga 180  
 tctctgaacc ccagctcat cagctcacag gcacaaagga gaacagtctt aaggtgaaac 240

tgctgcaagc aaggctagag gggcagcacg ctcggtgag cgcgtcagtg ttccccctga 300  
tcagcacaag aaggaagtga tgccactcgt gagcttccat gatttcgata cgcaacacag 360  
agttgcaatt gtaagatagc tgaatattgt tagctcgagg caattggact cgggtgtgaat 420  
cctagatcca gccgcgtatg ttgtagattt gatctgctaa ctgtcagact agaatcgaat 480  
caagatggac 490

<210> 32217  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B5

<400> 32217

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ctgaacctcc aagcagcaag cgatgaatgg aaggacgcaa gcaattagcc tgatggtgca 120  
ccttgctgtg ccatggctct gccttgcttc ttgggcagct ctgctaccag cgctactagc 180  
atctggaaat gtgggtgcag cagcttcgac actgagagca gagtacatga atttgaactt 240  
tagcaccgct tcggcgaccc ccgacaagta caagagcttt atcgcttctg ttcgtgctgg 300  
cttggtgagc aaagcggggg gcaacagcag cgggatcccc gtgct 345

<210> 32218  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C10

<400> 32218

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agcttcaagt gagcggactt gacaggattt tatttgagtt ggacgggttac atactaaaaa 180  
attgaaatag gctagcttgg tcggtgtgcy tccatgtgct gtcccagtgag agcagcagca 240  
gtgaggtgta cagcatttgc tgaatgtgaa agcagtcctta cagatctgta gaaaatgttg 300  
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<210> 32219  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-H11  
  
 <400> 32219  
  
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 ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgccga cgcgccggag 180  
 gccgccgcac catcaccggg gcctggctcc gcctcgtcac cggactcctc gtcggatgcg 240  
 ccctcgagca gcagctcctc ggactagata gctagccgct tgaccgacga tctcgttctc 300  
 catctacacg gcgatcgagt tctagctttg tcgacatgca atgcaaaatt ccgattcttc 360  
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 cagttgcaga gcatcatagt gctattgttc catggcaatt tgtttcccag aagactggtg 240  
 ccaccttaaa atatgttgga ttgactaaag aaaatgtccc agacattgag cagttaaaag 300  
 ggtttctgtc gaacaagaca aagatagttg ttgttcatca tgtctcatat gttctaggtt 360  
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<212> DNA  
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<223> unsure at all n locations  
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 gacgagttcc agaacacgct cggcgggatg gggggagggc ttggcaagga cttcggctcc 180  
 atgaacatgg acgagctgct gcgagcatc tggaccgccg aggagagcca ggccatggcg 240  
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 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F10

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 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180  
 gaaggtggct acaacaagtc gggcggcgat gacgactacg gccgcagcgg cggcgatggg 240  
 tacggcaggt ccggcggcga cgactacggc cgtggcaccg gcggcggtgg ctacaacaag 300  
 tccggcggcg gagacgacta cggccgcagc ggccggcagc actacggccg tggcaccggc 360  
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 accaccaacg acgacgaata 440

<210> 32223  
 <211> 198  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F11

<400> 32223



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 tgtaagactt tctgggttatg tccgccccgc tttgccactg ggttattaag aacgtcgta 180  
 tggatggttg tctacact 198

<210> 32224  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gtgcctcgtc cgggtgggct tgcaccagct gccgggtggtg cgccgcacat cgcgccagt 180  
 gaagtcggag gtggagtcgc cggactacca ccgncagcgc cgggcgagg ggctggcgcg 240  
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 cggccccgtg cacaagcgct cg 322

<210> 32225  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F3

<400> 32225

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 ctagaagact ctccatgcat atgtgctgt tcagctaaag ctgcgactgc acaagcaa 180  
 ccaccagaag aagctgcttc agcggtcgtt gtcatatcac catcatcaaa aggccttgaa 240  
 ggaattgatg acggtgtagt gcttacaca 269

<210> 32226  
 <211> 383

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-F4  
  
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 accgccccgc gtctccggcg aaccgcgcgc cgcagcggag gcgggcggcg agatcgccgc 180  
 gctcgacaag cagctcgccg tcgtcggcgg cggcgaggag aggaggccgg ccggggcccg 240  
 ggccggggcc gccagcgcag gcgggggaag gaagctggtg gcggaggcca tgcgcaagta 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-F7  
  
 <400> 32227  
  
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 cgcaacgcaa tggcgtcgc caccaactcc gccgtgccc cagcagctgc cgtatccggc 120  
 ggcgcggcat ccagccgca ccgcgcggcc acgttccctc cgctgaagag gcgcaccatc 180  
 tccgccatcc acgccgccga cccgtctaag aacaacgggc ccgccgtccc c 231

<210> 32228  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-F8  
  
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 ctcgtccctg ccggtccga ccccgacccc catcccgctc gcgtccaacg ccatgaatcc 180

cgagtacgac tacctcttca agctgctcct catcggggac tccggtgttg ggaagtcttg 240  
cctgctgctc aggtttgcgg atgattcata tctggagagc tatatcagta ctattggagt 300  
tgattttaaa atccgcaccg ttgagcaaga tgggaagaca ataaagctac agatttggga 360  
tactgctggc caagaacgct ttaggaccat cacaagcagc tactaccgtg gagctcatgg 420  
cattatt 427

<210> 32229  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G1

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caggctttgt gtatctgcag ttcgatagcg tgactgcagc agcaaaggcc caaaatgccc 180  
ttcacggaag atggttcgct ggaagatga ttacagcgac atttatgtcc gctctggagt 240  
acagtacgaa gttcccaaac ttgtgagcat atgcccggaa gaagtggcca gacctgcata 300  
gttcggttgg agtattcgca agtgcttgat cgttggatgg tagacgaaca ccttattgat 360  
tgtatgacag gatagttgca gcaccgggcg tcactatcag tacaatgctt gatgtacttt 420  
attta 425

<210> 32230  
<211> 81  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G10

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aggggggaca atataaagag c 81

<210> 32231  
<211> 451

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-G12  
  
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 acaaaagacc ctctgggtac aatttcagtg ggtttgtcat aggcttaatt tttttattag 180  
 caaattgttc tggacttgtg tcaccaagca tttttgtaag ggtgagagta ataattatTT 240  
 tgtaactagc taacatcaag cattttcttg gcttcttcaa cattttttca tctgttcttt 300  
 tctgatctga aagctgcatg aattagtcct gcattcctat acaggcaata gttctgttac 360  
 ttcagctata taatttatat ggcaaataca cgttacaaag ttgcatttct tcacagccat 420  
 atcttcatga gtcccgacat cgtcatgcc a t 451

<210> 32232  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-G3  
  
 <400> 32232  
  
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 gcaagtccgc gctccgccgc atctccgaca agctccgtag cctcggctac ctcgagaccg 180  
 tctccgagcc cccactccg gccccgaaca agagcgggga cgccccctcc cccggcgaga 240  
 tattcgtgcc cccccggcc cagcttccgc gccaccgct cggtccacc ctagaccgga 300  
 gctgggccac gggcgacggt gaggttagct ccacctcgcg gcagcggcgg aggggccgcg 360  
 ggcgcgatgc gtcggggtca ccttcggcgc cgccgtccgc ggcggagttg gcgctaccgc 420  
 gggacga 427

<210> 32233  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G5

<400> 32233

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gattctgggc gtggtgctgt gttcacaaac accagtctgt cagtcctgtg ttgtgtattc 120  
tgcttttcga tacagatttt ggaccaatca aatcctgcat tgcgctgctt gccagctaga 180  
aaactcctac ttcggacccg aacaataacg gggactctac ctttccctgc gagatattct 240  
tgaccacacc cgagcaaatt ttcgaggcac cgcgtacggg tcaccctttt aaacaagggtg 300  
ggccactttc gaaggt 316

<210> 32234

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G7

<400> 32234

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taggcggcgc tcaccacctc caaggcggtt gagaagccca ccaagaaggc caccacctcc 180  
acgtcgcttc agtcgctctc ctctcgccg accccttcgc tcccgctcca gatcaatttc 240  
tccaagaagg ggacgagggc ctccattgag gcgtggtagg tcagactcat catattctcg 300  
atcacctact ccaccaagaa aggggccaag gagggatatca aggagccgca gccctagaaa 360  
gcctcctaga ggaggaagaa gcgtctccag tgacagccgc agcagcagtt caccttcccc 420  
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<210> 32235

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G8

<400> 32235

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cttacaaga tggtcacaaa gaatcacgga gtaagggagg gattagcaac tcacacaaga 120  
 cacaagatc acagcatatt cgcacacaca agactcagac ttaagctcat gagactagca 180  
 cactataacg gaggtgttct ttttagctta gctaggaatg caaatgactt gattcgttgg 240  
 aaaaaaaca aaaataaaaa aaatataaaa aaaatgacta atatgaaaaa ttaaaaaaag 300  
 aaaattattt aaaaatgaaa acaattaaaa 330

<210> 32236  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G9

<400> 32236

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 ccctcctcct attctgacct tttttacctt cccaccctt ccaactactt agcttttctt 180  
 tgccacaact tccttcactt ccattgcccc cccttttaca actccggggc tcgaaaacct 240  
 tatggacctc aaaccttatt ccctttccag actatcccct tttctccaac tcacttat 298

<210> 32237  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E9

<400> 32237

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 gccggcaggc atcgcacggt caccaccatg gcggcgcagg agggcggcat gaggtgtgtg 180  
 tcgcacccga tcgcggcgca cgacggggcg ctgccgcggc agtacacggc ggaggggcag 240  
 ggcgccaaga aggacatgtc gccgccgctg gagtggtacg gcgtgcccga gggcgcgcg 300  
 tcgctggcgc tgctggtgca ggacatcgac gccgaccccg tcgtgccgtg gacgcactgg 360  
 gtggtggcca acatcccgcc cgccaccagg ggccctcccc aggggttctc cggcgccgcg 420

ggggcggggg cggtggcggt ccgcgaccag ctcg

454

<210> 32238

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H1

<400> 32238

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atcgtttttc cccatctccg ttggattttc tgcacgagt actttcagt atctgaaggt 180

tactggaatt cttcctctga aggaaagcaa cccttccaag ttttctcaac gggctcggtt 240

ggtcactggt aacttcccaa gtggttaaac cctggaccgc tgagggttgt tccactggaa 300

ggttccaata ccaaaggtaa ttgccgggac ctattccagc cattggaccg gagaatattt 360

tggggttgga aaaattcttt accaatcgcc tcttaatg 398

<210> 32239

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B4

<400> 32239

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ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agagggtgaa gataaggaac 180

aggaaaagac caagcgtgag cgcaaaacaa caaatatat gacgaagtat gaacgtgcgc 240

gcattcttgg tacacgagcc ttgcagataa gcatgaatgc tccagtcag gttgagcttg 300

aaggagaaac tgaccctctt gagattgcga tgaaagagct tagagcgcg aagataccct 360

ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420

ttgtg 425

<210> 32240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B5

<400> 32240

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tcgtggcagc atcaaagatc cagcacggga ggaaatgatg cgaggggaagc caggatatga 180
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tgcgcgcttg atgcaagccc gcgagatcct tgaagatctg ctaaagcctg tggatgaatc 300
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gag 423

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<210> 32241  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B6

<400> 32241

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cggaattccg aaggttgggc atggaggcga gcggcgagaa ggctgcggtg gtgcgacggc 180
tgatggaagc gaaagaagtg ttcgggaaga ccttctcggg aatcgccgcc gagacgggtc 240
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tgcccgcgct gagggcgggc ctgcccacgc tcacggacga cctcatcgaa ctcagatgac 360
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-B8  
  
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 a 421

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 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-C10  
  
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 catattacct aggtgcatcc tttggtatat gcttatatac gtcgaatctt gtagaggctt 180  
 actttaaaat cattcaattg tataatgatt ttggcacatg aatcaataga atatataaac 240  
 atccaagctg actcaagggc aattgcaact ttgatgctga taacaaatat tcttactaac 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-C11  
  
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 ataatttaac aatatattaa atttattatc ctatcttttt ataa 164

<210> 32245  
 <211> 66  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C12

<400> 32245

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 gtatgt 66

<210> 32246  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C7

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 gtgccagcta catggcgccg tatgttggac gagccaggca gcatcagatc gttgtttagt 180  
 tagttgctgt tccgtgtatg tagacgtgta gtgtagagcg atgattttta ctaggtgggt 240  
 gctattcaaa gccttctgat ccagcaaccc atcaaatgag gtgttgtaag tacaagagaa 300  
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<210> 32247  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C8

<400> 32247

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<210> 32248  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D1

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 aaaattgggt cactttttta aattatactg ttttgtacat ctcttgtcta tacttgattt 240  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ctcagcctct gctacctaac gncctgtca ctgaggtgcg ccgtggagct tggcatcccc 180  
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 ct 242

<210> 32250  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D4

<400> 32250

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caacgttacc agctatacag gccacatca accgcttaca gccgcacatc gccgtcctac 180  
agtgcactt gaccatgtta taggcctaca ttaccttcat acagccgtac gtgcccttta 240  
tacagcccta cgtaccgctg atacagacct acctagcgct gctacagccc gacatgacct 300  
gcttacagcc cgacattacc aggatacagc ccaacgggac cgaactacag tcctacatct 360  
ccgagctaca ggcctacatt tccgagctac aatccttcat cagtcaagta caggccttta 420  
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<210> 32251

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D7

<400> 32251

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tgcgggtgtc tagcataggc tccccttgct tgcttggatc ctgactttaa atgccttcac 180  
taatattccc gcacacggta gcttttaacc actggctgtt caaccaaacg cgatgaccaa 240  
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<210> 32252

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D8

<400> 32252

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gg 62

<210> 32253  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E11

<400> 32253

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tcgttagctt ccacttcata ctctccttcg ccatcgacta cagccccgtg gggcagcagc 180
cgaagccggt gccgaccaac ggggtgttca gcccgttctg ggacacgggc aacctgtccc 240
ccgccgccgt ggccgctata aaggcctcgc accctaacgt cgccgtcatg gcgggggtcg 300
gcggcgacag cgtgcaggac atcgtcaagg ccttcttcac cccgacctcc gtcgacacgt 360
gggtggccaa cgccgtgacg tcgctcacgg gcatcattaa caggtacggg ctggacggcg 420
tggaacgtga ctacgagcac ttcgccgac 449
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<210> 32254  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E12

<400> 32254

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tggaagtacat tgtcgcgcag tccatcatct tccagatcta cgacgtgccc atcaacgcac 120
ttgttagctt acacttcata ctgtacttcg acatagacta caggtcatg tttcatcatt 180
tgaa 184
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<210> 32255  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E4

<400> 32255

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 taccacatac aaataaagca acaaacaaca caaaataacc aggcctgact ctttaaaggt 180  
 acccacttta aataacagta cctcacactt aaaaaccttc ttaaaggtaa tcattacaat 240  
 attaatccct caactattat acaacgtatg gcttgtaaaa accctgcatt acccaaaatt 300  
 aaatctctaa tagcaaatcc cctttttgct gccttttaaaa aacccaaaaa tccccaccc 360  
 tatcgccttt tcaaa 375

<210> 32256  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B12

<400> 32256

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 ttctgagagg cccggctgac gatgcgcaag acggtatgcc aacgtcaagt cgtcagccgc 180  
 gtcagggagc ctacggtacg gatgctaccg agtgctgtac ctggggccac tgtgcgggcta 240  
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<210> 32257  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-047-Q1-K1-E7

<400> 32257

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 catcctgctc gccctctact ggaaccagct ggacggcgga tgcaagcccg ccgccggagc 180  
 ccaggagggtg gtcgccgtgc ccaccgaggt cgtcgaggag gaggacgtca cgtcgcaccg 240  
 cttctcgccc ggcaacatgt cgcaccttct ncttcgacgc gccagtccc agcaggtgcc 300

ggccggctac gacgacgcgg cgaatcaaga ccccgtaag cgcaccaacg gcgtccacca 360  
cagaaggaaa gcagcgggtga acggcgattg cgacggcgac ggcgaccgct actac 415

<210> 32258  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E8

<400> 32258

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tttaatggac ctgttgtgtc ctctgtgttg taccctaac tcttctgcag cagtattggt 120  
tgaatccttg tgaagttacg atgtttgaac ttaaaagtct gtcattatg ttctttttct 180  
ggttatatct cctaataact gcctgggatc aaatttgatt cactggtgtt tattggacca 240  
ataataaccc gacaacatgt cgcacctact actacaacgc gcac 284

<210> 32259  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H11

<400> 32259

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accaaattccc gccgagcccc aaattttccg gcgggttccct tgccgcgaat cgattgattt 120  
cgagcgattc gactcctttg tgatctctcg gcggggtaga gcgcggtcga ccgtcggcca 180  
tgtcgaggtg cttcccctac ccgccaccgg ggtacgtgcg gaaccagtg gccgtggccg 240  
agccggagtc gaccgctaag gtttgttgaa ccttcggatt tacacacgca cgtgccagat 300  
cgtttgttca atctgtaggt tttgcgcgga tctgtggttt gcgcgtgcgt gatgtgggta 360  
ttgcccgtgc cttgaaagct aaccgagctg aggaagtgtg tggatc 406

<210> 32260  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H3

<400> 32260

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cggtctgcatg gcgagcgctt gcgccacctc cctccccctc gtctcggcgc cctctgcatg 120  
cccgtccaag aagaccaccg tcgccaggtt cgggcgcgcg acggcgacgt gcagggccag 180  
cagcggcggtt ggcgggtggcc ggggcggcga aaatgatggc ctccctttggc tgccccggcg 240  
ggacgtgatg ctcaacggcc tgtccagtgt cgcgcgcggg ctgccttggt accccggcgt 300  
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<210> 32261

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-H4

<400> 32261

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gtgctgacgg cgattaggtt tccgaatcgt gtttaagcgc tgcgaaatca ccgctggggc 120  
ttcgtcctcg agtcgtcgtc ctgctggatg tcacctcgtg tcccgcgcgc acgccagtgc 180  
ccgtcctcgg agccgcctct ctccgacgat cgcgcggagac ggatacggtc gaagccgtca 240  
ctgcaggccg cgctcgtgcg ccgtagcaga tgtctagtag ctccaacggc cattatcctg 300  
ctaattggtgc aaagattctt catagaaaag aaaagaatat agagaaagta cagctcgaca 360  
aanattcagc cacttgggtg tgccagaagg acaggcatta tggtgaaaat 410

<210> 32262

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H5

<400> 32262

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tagcctctag ccctagctag tagctagcca ctcggtcgtg tagtcatcag ctttctgac 120  
gtcaccatg gccactgccg aggtccagac cccgaccgtc gtggcgaccg aggaagcgcc 180  
ggtggtggag accccggctc cgcccgccgt cgtgcccag gaggtgccc ccgccgccga 240  
ggccaaggtg gaggagccag ctgccccggc ggagaccgag ccagctgccg ccgctgagcc 300  
cgaggcggtc cccgtggcgg cggaggaaga gacgccaaaa gaagaagaga cggcaaagga 360  
agcggaaccg gagccggagc cggcggcggc tgaaaaagtg aaagaggaag cggcagcgcc 420  
cgctgccgag acagaagcag 440

<210> 32263

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A11

<400> 32263

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acgaccatgg cgtcccaggc catcgagagc caccgtgcag gcgctgaggt cgtcaccgga 120  
ggagacgcaa tctgcaggaa gaagtcaatc gagctgctgg aggagctcgg cctccccaag 180  
ggcttctctg ctcttgagga catccaggag ttccgggtaca accgcgtgac agggttcatg 240  
tggctggtgc aggggaagaa ggtggagcac accttcaaaa agatcaagca gactgtgtcg 300  
tacgccactg aggtgacggc attcgccgag aagggaagc tgaggaagat caccggcggtg 360  
aagacatagg agctgatgct ctggctcagc gtcgtcgagg tctacgttcc cgaggcctca 420  
ccagag 426

<210> 32264

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-047-Q1-K1-A2

<400> 32264

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aagctgcggc tgcnctcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac 120

gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc ccggagaaga aggccgcgcc 180  
cgagttcgtc gaggccgcgg cggagtccgg cgaggccgc cacggctgca gctgcggtgg 240  
caacttgtag tgcgaccct gcaactgctg atcacatcga tcgacgacca tggatatgat 300  
tattatctat ctaac 315

<210> 32265  
<211> 374  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-047-Q1-K1-A3

<400> 32265

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tcatgagtgt gccactacat gtgctgctgc tctgagctct ggctgcaaca atggtgggta 120  
acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180  
gccaaactcta tggggcctgg tgacggtgct tggtttatgg aatgggatgc agctgcgcag 240  
tcgatatgga tcagcaccgt gacttgtatt tgtgctgtac atnccgccg ttgtacatga 300  
actaactgta ccctgtgacc tcaccttgtg tacantaaat gtctttattt aatgggaaaa 360  
aanaaaaann anaa 374

<210> 32266  
<211> 171  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A4

<400> 32266

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ggacgaagcg ctcatcgagc ttgcttcgat ggcggaactg gctgcgtacc cctggggtag 120  
atcatgctct tcggagcacg gggattgcaa gaacggttcc agcagtaatt c 171

<210> 32267  
<211> 357  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A5

<400> 32267

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gcggcatcgt gcctggcgtc gtgctgcgcg gcgtgcgcgt gcgaggcgtg ccggacggcg 180

gtcggcagca tcggccgcgc ctccgcccgc atcgctact gcggcctctt cgcgctctcc 240

ctcttcgcat cctgggcgct ccgcgaggtc gccgcgcccc tcttcagtc gatcccatgg 300

attaaccact ttcacaagac ctccgaccgc gagtgggttc agaccgacgc ggtgctc 357

<210> 32268

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A6

<400> 32268

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ctcgcaggag ccgggcaacc ctaccaaattc ggccaaggcc atgggaaggg acctgagggg 120

ccacttcaag aacacaaggg agacagcttt tgggcttcgc aagctgcctt tgaccaaggc 180

taagcgatac cttgaggatg ttattgctca caagcaggca attcccttcc ggagatactt 240

gggaagtgtt ggtcggacct gacaagcaaa gtctcgccac tccaatgggc aaggtcgctg 300

gcctgttaag tcagccaggt tcatattgga tttgctgaaa aatgctgaga gtaacgctga 360

tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac attca 405

<210> 32269

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A7

<400> 32269

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gtcctactag ccagtcgact ctatctgac ggccaatgcc atgcaccagg ctctatatgt 120  
gcagtataat aactcaagtt atactgctct tgcaattcgt acgatgcatt ccaccaattc 180  
taaaccatac tttaacgctg ttattgtcac atcgccctaca gttccctt 228

<210> 32270  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A8

<400> 32270

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cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac 180  
cgtcgtggcg accgaggaag cgccggtggt ggagaccccg gctccgcccc cggtcgtgcc 240  
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cgagccagct gccgccgctg agcccgaggc ggcccccgctg gcggcgaggag aagagacgcc 360  
aaaggaggaa gagacggcaa aggaggcgga gccggagccg gagccggcgg cggtgaag 419

<210> 32271  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A9

<400> 32271

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ctcgcgacgc tggcgctggc cgtgctcctg gcggagaccg tggtggctcc ccagcacgc 180  
ggagcgcgcg gccatgtcgt gttccaccgc gtacagcacg ctgatgcc 228

<210> 32272  
<211> 214  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B1

<400> 32272

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agaaaaagaa aaaaaaaaaa aatgaaaaaa atatataata atacaaaact tacgtaaact 120  
tatattaaaa attatataat attatatata cataactaaa atgaaaaaaa atggtggtag 180  
ttttaaatt tccaagctta ttaaaaccct tttt 214

<210> 32273

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B10

<400> 32273

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catgatgagg aagagagaga gtgaaaggag tgggagactg ggcattctccc cccaccattc 180  
ttggcgagat cctcatcgat gttactggtt ggtttcaaata aacatcctgt aataaaattt 240  
cttctccaaa aaaaaagaca aaaaaaaaaa caatacaga tagaacaaca aaaaagataa 300  
aaaaaaaccc agagacaaat agacaataaa caggaacttg a 341

<210> 32274

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H10

<400> 32274

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ctcgggtattc accctgtaca ggaacaggga gaagatcctc ctggttgtca agacgtattg 180  
gactacccat gaggccatga ccaagatcag tagcaggact gtcaagtaaa attctcaatg 240  
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tctcttgacg gtttgtgctt gctgttcttt ctggacagta cttgctcggg taggaaattt 360  
aacatgtggg ggaaggaagg gtaggtagta agaccctgg cccctgcaa gttttcttca 420  
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<210> 32275

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B11

<400> 32275

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gcgcatccc gggggcgctt gccgacctgc ccagcctccg gtcgctggac ctgcggcaca 180  
accagctgac gggcccatc ccggcggggc tgggtgcagg gcagttccgg tcgctggtcc 240  
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ccgtcgacct ctcccacaac aggtcacctg gcgacgcta ccacctgttc gtcgccggcc 360  
ggcccatcgg caaggtagac ctgtcgtgga actacctcaa cttcgacctc agcaggctgg 420  
tgttcccggc ggagctcacg tacctggacc tgtccca 457

<210> 32276

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E1

<400> 32276

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accaaggctg ccgcaaagaa gaaatgatgt gtctggctgg ttctgtgttt gcttgaggga 180  
aacctagtgg aaacataaaa tatctcgtct tgttcacgtc attgtctgaa ctatgctcgc 240  
aacgtttgcc tggtcgattt agaatggta ttttcgttaa aaccagagtg ttatttaaga 300  
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<210> 32277  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-E10  
  
 <400> 32277  
  
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 caggagcata ctgcgagcag accagcgctg ggtgctgcaa gccgaccacc ggctgtctcg 180  
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<210> 32278  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-E2  
  
 <400> 32278  
  
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 tgaggagatg cctgatgtca ggaaactgga catccgaaac ttcctgtagg cctgatcgac 180  
 gataaccttt gaggcattgc aaatcaccca gccacactgt gatttttttt ctttttggtt 240  
 tggtttcaag ttgatcgggtg ctgtaagcta cacctatgaa tgctgctcct tccttttttt 300  
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 ttcttt 366

<210> 32279  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-E3  
  
 <400> 32279

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tcttgtttca ccgaggaaaa gagagaagtt ctggataaat tgacaatgtc aacttgaatt 180  
gactaattca gttccgccta ttccacatta atgggagtag atttatgttt ctgctttacg 240  
aatatgatat tttttggaca tttctaataa tagcaagcct ttttcctatt ttggtatttt 300  
ggatttcagg acttttagcc ccgggtagtg aaggaccaga gaagctttct agttatgaat 360  
cgggtataga acccatgggg gggggctggg tacaattccg aatacgctat tacatgtttg 420  
cgcctagttt tgggtggttt gatggg 446

<210> 32280

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E7

<400> 32280

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agggaggact acgtcgagaa cgccgtcaag ttcctgtccc acccaaaggt caggggctcc 180  
cccgtcgtct acagacgatc cttcctcgag aagaagggcc tgaccacaca ggagatcgac 240  
gaggccctac ggagagtcct gatcctg 267

<210> 32281

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E8

<400> 32281

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gcgcaaccac ggggcgtgcy cggcgctgct gaaccgtca gcggcggagc ccatgggtgtg 180  
gccttccccg ctcaagttca tcagcgagct ggaccggag gcgaaggctc tactggaagc 240



ggcactgatg gacgccaata gggagagggga ggagaagatc ctcaagggca tcaccaagta 300  
tccgcaggca tcgcctactt cgccttgcca gcacgatgcc attgacgaag cgtcctcgga 360  
ggccagcgac ggggagctgt gctgcatctg cttcgagcat gcgttcagca tcgacgtgca 420  
tgactgcagg caccaaattgt gcgcggcgtg cacg 454

<210> 32282  
<211> 170  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-046-Q1-K1-E9

<400> 32282

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cggtgccatt gccttctaata tttttgaaac tttccgatag ggagcaaact acacttcttc 120  
cacttaatcg ggctgcaaca taagcacctt ttacctagtt ctgacactga 170

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F1

<400> 32283

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gatgagggag agcgaagatg cgccgcgtcg cgctgttgct cgtcgccgcc gagtgcgcg 120  
tggcggcgcc ggatgacgag gtcgtcactg acgggcttct cccgaacggc aacttcgagg 180  
atggccccgc caagtcggcg ctggtgaacg gcacgggtgg gtccggcgcc cacgccatcc 240  
cgcggtggga gacgtccggc ttcgtggagt acatcgagtc ggggcacatg cagggggaca 300  
tgctgctggt ggtgccgcac ggcgcgcacg cagtgcggct gagcaacgag gcgtcgatcc 360  
ggcagagcct ggccgaggcg cgcggcgccct actacggcat cacg 404

<210> 32284  
<211> 406  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-046-Q1-K1-F11

<400> 32284

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aggccgtcat ccccgcgacc gaccgcccgc cgccgcccgc gccggccgac gactccaagg 180  
ccctggccat cgtcgagaaa gttgcagatg aacctgctcc cgagaagcct gccctgcga 240  
agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca gagaagagga 300  
actctttgat caaagcttgn gaagagaatg agaaggacaa agctgagaac aaggctgcta 360  
agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaa 406

<210> 32285  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F7

<400> 32285

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gcaaagctta taggcatccg tgtcccaacg ccctcgacct attctcaaac tctaaatagg 120  
tttgacggct cacttgcttc agtgagccgt gccaaccaat ctgcagctcc aaaatcgcca 180  
tttcttaciaa gcacatctgg ctattcatta t 211

<210> 32286  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G1

<400> 32286

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acctggtgct gatcctgtac ctccaggccg ctctggtcat gggcatcttc gccgctttgg 120  
ctaaagaaaa tgccctgggt gagagcaagg ccatcgacat caaccctggg cagctcaagt 180

cctgcaccaa ctgcaacttt ttcttttcgg gcttctacac ctgcaactac tttaaaaaga 240

c 241

<210> 32287

<211> 347

<212> DNA

<213> Zea mays

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<400> 32287

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ccccctcaga tccggtctgc cccgccgcg ccgatgtccg aagggtcccg gggatcccg 120

cgctggcggt gcgacctcg gcgcgacgag cgctggctct cgggggccc tggcgacgac 180

caattcgacc gcctcccga gcgctcctc ctgctcatct tcaaccgat cggcgacgtc 240

aaggcgctcg gccgctgtc cctcgtctcc cgccgcttcc acgagctcgt gcccttgtc 300

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<210> 32288

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G5

<400> 32288

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acacctggtg ctgatcctgt gcctccaggc cgctctggtc atgggcgtct tcgccgcttt 120

ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccgg ggcagctcaa 180

gtgctgcacc aactgcaact tcttcttctc ggggctctac acctgcgacg acgtcaaaaa 240

ggactgcgac cccgtctgca agaagtgcct cgtcgccgtg cagccttct acttgggcaa 300

caaccagttc aagtgcaccg acaactttct tg 332

<210> 32289

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G7

<400> 32289

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accatgaagg gcaaggctga cacctccaag aaggacgagg gcaggctccg ggcgggcggc 180  
gccgccggaa agcgcaagaa ggccgccgcg agcggcaagc ccaagcgccc gccctacgcc 240  
ttcttcgtct tcatgtctga attcaggcag gagtatcagg cgctgcaccc tggcaacaag 300  
agcgttgcca ccgtgagcaa ggagcaagg gaaaagtggc gtgctatgtc agatcaagag 360  
aagcaaccat atgtggacca agctgggcag aagaagcagg actatgagaa gactaaggcg 420  
aactttgatt agaaggagag cacaagctc 449

<210> 32290

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G8

<400> 32290

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acatcttgtg ccgatacctaa accactagtc ctctctcatc atagaactct atctatcatc 120  
accataaaga acatgcctta caccataaac aaggactaga ccaaactc 168

<210> 32291

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G9

<400> 32291

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tggtggtcag gaccaccacc gtcgccgtgg agccgcggtt tagggaaatg gtgggcgctg 180  
gtagggccat tcgtggtgaa ggccgtcggg ttcttgctgc tcgcgggcct cttgttccgg 240

gtgctctggt cctttccgtc ctctccggcg ccggcggttc agatcacaaa aggaaaatgc 300  
 agtcttttca atggggaatg gataccaaac ccctctggtc cagcctatac aaatgcaagc 360  
 tgtcgattta ttgacgatca ccagaactgc atgatgaatg gtagacctga taaggaatat 420  
 ctacattgga agtggaacc ttatggatgt g 451

<210> 32292  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-046-Q1-K1-D9

<400> 32292

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 gtggcttgct catctatcag agcttcactg ttacggccga aacgacccat gggtcgccga 180  
 ggtcagtcct gcatgacttc gctggtgaca ttgtcaagaa tcgctcagag agtgatgctc 240  
 cctgngaagc tgatgctgtg gatgagagcg aggaaagaga tgtaaagaag atgaaatgct 300  
 gatgtggtcg acgatagatc agattcagag ttgctgccac tggttatctt gtgaagcagc 360  
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 tgc 423

<210> 32293  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A8

<400> 32293

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 aaagcgatgc ctaccatacc aactgctgt cagtctctgg agcatttagg tggctctggat 180  
 caatggaagg gttgtgtcct agccagccgg caaagatgag ctgctgatgg taatgatgat 240  
 gataagaggc cactgctacc ctactacgta ccctcctctt tgtgtgctgc catccgtccc 300

cgttagacga tcgaggagag aataacgcag agctctctgc tcccggcctg tcttctgccg 360  
 tcccggccgt ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt 420  
 gtgcgggtat gtaatggtat tgcaactata 450

<210> 32294  
 <211> 60  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B1

<400> 32294

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

<210> 32295  
 <211> 78  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B10

<400> 32295

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 cgtgggagat cgttcacg 78

<210> 32296  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B12

<400> 32296

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 ccgccttcgg cgaggcccg cgtgacgatgc gcaagacggc ggccaaggcc aagccggcgg 180  
 cggcgctccg gagcccgtgg tacggccccg accgcgtgct gtacctgggc cactgtccg 240  
 gcgagccgcc gagctacctg acgggcgagt tcccggggca ctacggctgg gacaccgcgg 300  
 ggcttgctcg cggaaccgga gacgttcgcc aagaaccggg agctggaagt gatccactcc 360

cgctggggcca tgcttggcgc gtcgggctgc gtct

394

<210> 32297

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B3

<400> 32297

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gcataggaaa aaaaataaaa tattaaaaaa ataaaaaaaa aaaaacaaag acaatctata 120

t 121

<210> 32298

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B5

<400> 32298

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ggcaaggctt cttttgttgt tggccttggt ggtggtggcc ttaagcttgg ccgtggaaat 120

ccaggccgac gccgggtacg gttacggcgg cgggtacacc ccgacgccga cgccggccac 180

cccgaccccc aagccccgaga aagccccac caaggggccc aagccggaca agccgcccac 240

ggagcacaag ccgcccaga gcacgggccc aagccgaaaa gccgccaag agcacaagcc 300

gacgccgtcc acgtacacc cgagccctaa actcacgccg gcgacgtaca ctcccaaccc 360

gaggcccccc aagccg 376

<210> 32299

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B8

<400> 32299

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gtactctttt tggcacacta agtggcaata cccgtgaagt gcttcacaaa ttcactgttg 120  
acctcccaaa gaagcatggg agaagaaggc agtctgctct gcgttttgct cggcttcgga 180  
tggagaaaacg ccataactat gtccgcaaaa cagctgaact tgctaccag tttttcatc 239

<210> 32300  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B9

<400> 32300

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aatctctcaa tcaggggatt cttaggctctg atcaagtcgg aggattcggc agggcgcagc 180  
catgaacgag aaggcgtccg tctccaagga gctcaacgcc aagcacaaga agatattgga 240  
aggctcttcta cggcatcctg agaatagaga atgcgcagac tgcaagtcaa agggctcctg 300  
atgggcaagt gtgaatctag ggatctttat atgcatgaca tgttctggca ttcatagaag 360  
cctgggggtg cccatatcta aagtaagatc ttgccacctg gatacatggc tgccagagca 420  
agttgcattt attcaatcca t 441

<210> 32301  
<211> 170  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C11

<400> 32301

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ttccaaatct ttggtgggcg attaccccat tgtttcgatt gaagatcctt ttgaccagga 120  
tgactggggt cactatgcta cgatgactga agatattgga gagcaagtgc 170

<210> 32302  
<211> 449  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-046-Q1-K1-C12

<400> 32302

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ctcgataata ttactttggg gcatcgtgag ggaaatgctg ttattcgccg tcacttggag 180  
agccttcctt tagaatcatt cgattctatc ctgattttgg cagatgaatc tgtagaagat 240  
tcagcaatcc aagctgactc aaggtcactt gcaactttgc tgctgataag agatattcag 300  
gcaaaacgtc ttccatgcaa ggaatcattg atttcacatg ttccccgagg gaccttttct 360  
gaaagtctct ggatagggga gatgcaacaa gcatctgata aatctgtcat aatcagggaa 420  
attttggacc ccaggacaaa aaatttgggt 449

<210> 32303

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-C2

<400> 32303

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ttgtagggtg gtttagattcc aatgtaaatg aggagtatct aaggcaaatt ttactctgt 120  
atggagaaat ttcttatgtg aagattcctg taggcaagca ttgtggattt gttcaattta 180  
ccagcaggtc atgtgctgag gaagccatcc gaatgctgaa tgggagtcag gttggtgggc 240  
agaaagtctg gctttcatgg ggccgtagtc ctcaaaacag acaggcttct cagcatgatg 300  
ccaacaacca gtataatggg aacagctatt atggatacca acagccgggt tatgaagggt 360  
atggctatgg tgcttncagt gcacaagacc caagcataca aaactactac ggatactctg 420  
gttgtggtaa ctatgaacag cagcagccaa cac 453

<210> 32304

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C5

<400> 32304

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cactacttta acgttatttt acttattccg tgggacggaa gctgggcacc gcccttcctt 120  
ttgggtccaa ggcccgaact attcttgcca attctggcct atgacattgt catgttaaga 180  
gttcggcttg tgccctacat gtcttaactg ataacatatg agtcctatta tgagctgagc 240  
tcgttcagaa atcattcgtg ttacataaca ttataagctc gcgcgac 287

<210> 32305

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D11

<400> 32305

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agggttctta caattgcaag atcctcccgga atagcttggt gctggatttt gtgacgaacg 120  
tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180  
gcaagaacgt gctgatcgac aaagtgacgg tcaaggcccc cggcgacagc cccaacacgg 240  
acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300  
gcgacgactg catctacatc ggccccggga gcaagatgat ccgcattcat ggcgtcaagt 360  
gcggcccang ccacggcatc agcgtcggca gcctggggcg ctacaagga 409

<210> 32306

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D12

<400> 32306

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caaattcgag gccaaagggga aattctccta ctctactcc ccagctgcgg cagctaccaa 240  
 gcgtggaacc accaccacca gcagcagagg tagaggtaga gggaaagccg acaagaaagt 300  
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<210> 32307

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A6

<400> 32307

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 ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180  
 cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacatggag attgaggaca 240  
 agaagacaga gctggagccc aaggtcgtgg aggcctacga agcatctcct cctgaggtca 300  
 aggctctgat caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360  
 ccaagttcct cgatgagctg gctaagattg actttcctgg agccaagggtg gtgagcgagg 420  
 ccgtggcca 429

<210> 32308

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D3

<400> 32308

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 ctagatctaa ccggactaac cagaaaacaa aacaaaaaaaa gacgaaagca tgagccactt 180  
 cgccgccgcc atgaagagcc cccttgcggt cgccgtcgcc gcgccccgcc gcgccccga 240  
 cgctaagagc ccgctcttct gcccgaagcc ggggcgcccc gcggcgccgc tgcggtgcca 300

ccagagcggc ggcttctccg acgccggcac ggatctgctc gacctnctcc tctcgaaagg 360  
cgacgagag 369

<210> 32309  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-046-Q1-K1-D4  
  
<400> 32309

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gctagcttcg gtcggtcgat agatcgatcg atcgctcggc catcatggcg cgggaggagc 120  
aggcgctgct gtcgacggag atcgtgaacc gcggcgtgga gccgtcgggc ccggacgccg 180  
gctcgccggc cttctcggtg cgcgtgcgcc gccgcctgcc ggacttcctg cagtcggtga 240  
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ccatccccgt catcgtgctg gtgtgccgcg cccagcttgg caagcctaag cgcgaaacagc 360  
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gcgtgcttgg cttaacatc ttcggctaca ttat 454

<210> 32310  
<211> 466  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-046-Q1-K1-D7  
  
<400> 32310

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acggatagaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180  
ttatcctgcc gccgtcggg gtctttcttca agttcggctg cggggttgag ttctggatct 240  
gccttattct cactttcttc ggctacctcc ccggcatcat ctacgccgtc tgggccatca 300  
ccaagtagcc cggccggtgc gttagcatgc aatgcgcgcg cagggtgatc tcgtggcggg 360  
ggaacgcgtg tgcgcgtgct ttgagatgtg attccttctt ttcttggtta gttgctgctg 420

ctcctgctgg tgtagtactg gtgtatccag tccttttaat ttcttg

466

<210> 32311

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D8

<400> 32311

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agagcagatc ggctgagcga gcgagcgagc gaggcacacg gagctagcta aacagagcac 120

actgattgaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180

ttatcctgcc gccgctcggg gtctttcttca agttcggttg cgggtgttgag tgctggatct 240

gccttatect cacttttcgtt ggctacctcc tcggcatcat ctacgccgtc tgtgccatca 300

ccaagtaacc ggccggagcg gtagcatgca atgcgcgcgc aggggtgatct cgtagcggcg 360

gacgcggtgt gcgcgtgtct tgagatgtga ttgcttcctt ccttgcgtag ctgctgatgc 420

tcctgctggt gtagaactgg tg 442

<210> 32312

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F8

<400> 32312

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gaaaaattag gccgggcgtt cctttattaa cgatcttact ttctcttctt ttcaattcca 120

tatctttgtt atcttgtccc ctaacttaaa ttcattcgac gggattttat aactcaactc 180

ttgggaaatc aatttccata cctcccttaa ctgactcgtc ttgcattact tattttctag 240

atgaagcaga taacctaaga cttccgctcc atctcgtttt tctaacaata cctttacctt 300

aaattatttt ggatatctcc ctctcttttt tttttaatt 339

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<211> 128

<212> DNA

<213> Zea mays  
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 cctacatg 128

<210> 32314  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-045-Q1-K1-G10  
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 ttttttaaaa aaaaatataa taacacctat aaaaattttt aaactaaaaa atcttataca 120  
 taaaaactcc taactcttat atatttaacc gccccctctt tttaattatc caactttact 180  
 tccctttttt ttcaaaattt ttttttttta ttatgtcccc ctaa 224

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 <213> Zea mays  
 <223> Clone ID: LIB3068-045-Q1-K1-G11  
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<210> 32316  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-045-Q1-K1-G12  
 <400> 32316

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cggacgcgtg ggccggacgcg tgggcccgcg cgtgggggttc tagatcgcga 110

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G3

<400> 32317

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aacttacaat ctcttctctc ctgatctgcc cttctaagcc taaccttcaa tccaaaataa 180  
agatcttata ccctatttct acccacaaaa ataatacaacc atccttataa atatttaatt 240  
tttactatct caccactaac tcccatttat tctacacct 280

<210> 32318  
<211> 308  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-045-Q1-K1-G4

<400> 32318

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gctctccgac ccctagctcc aaaggccgga tcattaggcg cgggtccccct ctcatgtaac 120  
cgacatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc tcgtcatcgt 180  
cggcacatgg tggaactggt aaaactacat ttgcgaagaa gcatatcact ggatagtttg 240  
agaacaaata tgaaccaacc attggtgtga aaaatcattc tttggatttc accactaact 300  
gtgggttag 308

<210> 32319  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G8

<400> 32319

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gtgtggaaaa tcattcgttg gatttcacca ctaactgtgg taagatcaag ttctactgct 180

gggataccgc aaggcaagag aagtttggtg gcctcaagga tggatactat atacatggcc 240

agtgtgcgat catcatgttt gatgtaacct caaggctact tacaaaaatg tttct 295

<210> 32320

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-G9

<400> 32320

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tttaactcat cttactacac cttcactatc ttttaacaga tgtgccgccc catccaaact 120

ccctacctga caatgtcttt cttccagatc tgccctttaa tgctcttctt tctaatactaa 180

aagatgtgct gtttctccct ttcgacccaa tatataatct aaatatctat aaaagtattg 240

atatttaaac tttctccccg ttctgttctt ctttttctt aaacctttcc aagatcattt 300

ttcacata 308

<210> 32321

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-H10

<400> 32321

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ccgggggtcgt ttatttgcta tgagattact cccccaaaa ctctcctnc ttcaccactt 120

ccatgcccaa agtcaatcgc ttcttctctt cactgtaacg cccctaactc aacaatct 178



<210> 32322  
<211> 397  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-045-Q1-K1-H2

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gcggttccgc cgcgtggtgc gcggcgagca gcangtcgtg tccgggatga actaccgcct 120  
ctacgtcgac gccgccgacc ccgccggccg caccgtgccc tacgtcgccg tcgtgtacga 180  
gcaggtcttg acccgcaccc gccagctcgc ctccctcaac ccggtgcccc gcgccccctg 240  
aaaccatacg gacacgggtg ggccgaagcg accacgacga tgttctccgt caattacgtg 300  
tcgagctaata cttattattg gttctattat tataataatg cttctccctg ttcctatgga 360  
cctatagtag tataactagta tgttgcgagg gagcagt 397

<210> 32323  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H4

<400> 32323

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acgcaggtgc agtcgctcgg gctgcgcttc caccgactca tggcgctccc cgccgactgc 120  
aacctcccca actccaacgt ctgctctgca atcaccctgc tgaacctgaa gccaggctct 180  
gcggactacg ccctcttcgc caacgcctcc aagatcacgc cgtcagccgg cggcaaccct 240  
gcgagcgaca gcgccgcggg cagcggcgctc aagttccggg ctgggggtcag cggcggcgctc 300  
gcgcttcgcc gggtc 315

<210> 32324  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H5

<400> 32324

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accccgacgg ccgcaccgtg ccttacattg acgtggtgta cgagcagttc tggacccgca 180  
ccaccagat taactttctt aaccgggtgc tctgagctcc ctgaaaccat actgaca 237

<210> 32325

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H7

<400> 32325

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aatggtgacg ctggcggttc catggaaatc tggccacctg tatgctatca tcaccttcgg 120  
cgcgctggtc ttctggactt catttgccgg gagacaggac agcttcttga tggatcaaga 180  
cgtcctacgt caacaagaat gagagggagc acgaactgag cagaaggaag cggtagtgcc 240  
actggtgcaa gctcggcggc tcaccgtcaa gacgaacgat tacagcagct atgacccttc 300  
cccgtccatg gacaagccac actccaagct cataccgaac tgatcaatca tgtacgcgtc 360  
caggttgacg cagcggagtt gccgatgagg aattaacagc ttaaatgtgt gc 412

<210> 32326

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F6

<400> 32326

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tgaagaagca ggagctgcag tagctgcgga atcttctact ggtacatgga caactgtttg 180  
gactgatgga cttaccagtc ttgatcgta caaaagacga tgctatcaca tcgagcccgt 240  
tcctggggac ccaaataat atatctgtta tgtagc 276

<210> 32327  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H9

<400> 32327

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gaggtgcgag gagatgacgc cgtcgaagac gccacctccc gcaccacgtc catgccc aaa 120
gtcgatcgct tcttcgccgc actggaaggc cccgaactcg acaagctcaa gacgtctgag 180
gaactggtgc tgccgtcgga caagacgtgg ccgttctctg tccggttccc cgtgtcggcg 240
ttcggatatc gcctgggcgt gagcagccag gcgatcctgt ggaagacgat cgcgtcgtcg 300
tcgccgacca cgttctctga cgtatcccac aaggatgaacc tgggtgctctg gtgcatctcc 360
gtgctgctca tgtgcgccat cacggccgtc tcgcgtctca gct 403
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<210> 32328  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-046-Q1-K1-A1

<400> 32328

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agtacaagat aatttgacag aagatgagcc aagttttggt agtcaagaag tagatgatgc 120
agagtcaaca gaagaaacta agcaaaacat agctgagaat attgcagaag tctctgatgt 180
ggcgattgtt gatgacgcaa ttgaacagaa tgtgctacag actgaggata tcgttgaaat 240
gcataaacag gagctggaac gagaagaaac agagagaata gaacctgttg aatcagagga 300
agcttctgat cagaggaatg atgcaccatt cgattattca gctcgagaag ataatacata 360
ggaaagtgag atacagcaga cagaatcagc aacgganaca aatgaaattg aaccactga 420
aattgaagca gttcctcgag aaaagcat 448
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 <211> 351

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-A10  
  
 <400> 32329  
  
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 ccgtctgcaa cctgctcggc gccatcaagg acgccgtcct gctgacgctc gccgccgtgg 120  
 gcttcccgca cgacgccgcg cgcggctcgg cggacgcccc ccagcccag gaggtgaaga 180  
 cccggtccc cgccgtggag tacgcccagc tcttgccga gcagcagccg tcgcccgcca 240  
 cccacgcggc ctgcatcgtt tgcttgaca cgctggaggc ggccgacgag gtgcggcggc 300  
 tgggcaactg cgcgcacgcc ttccaccggg cctgcatcga ccggtggatc g 351

<210> 32330  
 <211> 67  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-A12  
  
 <400> 32330  
  
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 atcgcgga 67

<210> 32331  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-A2  
  
 <400> 32331  
  
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 agtacaggat aatatgacag aggatgagcc aagttttggt agtcaagaag tcctatgatg 120  
 cagagtcaac agaagatact aagcaaagca tagctgagaa tattgcagaa gtctctgatg 180  
 tggcgattgt tgatgacgca attgaacaga atgtgtctaca gactgatgat atcgttcaaa 240  
 tgcataaaca ggagctggaa cgagaagaaa cagacagaat agaacctgtt gaatcagagg 300  
 aagcttctga tcagagtaat gatgcaccat tcgattattc agctcgaga 349

<210> 32332  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A5

<400> 32332

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ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180  
cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacaaggag attgaggaca 240  
agaagacaga gctggagccc aaggctcgtgg aggcctacga agcatctcct cctgagggtca 300  
aggctctgtt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360  
ccaagttcct cgatgagctg gctaagattg acttccttgg agccaagggtg gtgagcgagg 420  
cggtggccaa gtccggcacc tcgcccctgc ttccggcgat c 461

<210> 32333  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-B2

<400> 32333

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ccaattgacg gtaacaagta caaggggagc atttacctgg ttttcgagta tatggaccat 180  
gatctcaccg ggcttgctga tcggccagga atgcggttca ctgtgccga gattaagtgt 240  
tacatgaggc agctgcttac aggcctgcac tattgtcatg tcaaccaagt tctgcatcga 300  
gatatcaaag gatctaacct tttgatagac aatgaaggta acttgaagct tgctgatttt 360  
ggccttgcaa gatcattctc gagtgatcac aatggcaacc ttactaaccg tgtgatcact 420  
ttgggtat 428

<210> 32334  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agcgccgtag cgcttggtat gagcctggtg gagaagcaat ggctagtaca cggtgctcat 180  
 acttcagcgc tgcagcgctt ggtactcgga ccttggtctg aggcattttc tctacgccta 240  
 cttaccttga aaaagcaggg tcacctcgtg tccttaaacc tattactcat tgctcggttaa 300  
 cctaacctgc gccggacctc cgtccaaca atgggtagta caggaatat 349

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-B7

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 ttaaactcat ttttatcttt ttattaattt tttttttata atatattttt ttttttttct 240  
 ttattttatt ttttataatt tttttttttt aacatttttt ttttattttt ttttaatttct 300  
 tattttatat tttttattct tttttatttt tttatttttt aatattttta ttttttatct 360  
 ttttattttc tttttttttt taatattatt tttttataat ttttattaaa acctcattat 420  
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<210> 32336  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B8

<400> 32336

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gccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180  
gcacctccc tacgctgaga tgattgtaga ggcgatcgct gccctcaagg agaggaaggg 240  
gtcgagctcg gtggccatca gcaagtacgt cgaggggaag catggcggca agtccccac 300  
caacttcgc aagcagctca ctgtgcagct gaagaagc 338

<210> 32337

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C4

<400> 32337

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ctgctcgcg gcgctgggc ggcgggcgc gcccgctgct ggcgggtgg aaccgatcc 180  
ctgacgtgag cgactcgac atccaggagc taagcgggtg ggcgctggg caagcgaagc 240  
accacaagct ggccgccgac gggctgcgga tccgccgcgt ggtgcgcggc gagcaacatg 300  
tcgtgtccgg gatgaacta 319

<210> 32338

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C6

<400> 32338

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actccctggc acggatgttc ttcgccaaga cgttcgggat ggtgtcactg atggacgaca 120  
ctttcgatgt ccatgctact ctagacgagt gtcacaagct caaagaagct atgcagagat 180

gggatgaaag tgaggtc

197

<210> 32339  
<211> 279  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-045-Q1-K1-C8

<400> 32339

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tccggcccct ggcgaggctc ggtgccttgt gagcgcaaaa gggaggggct ggtgcgcccg 120  
ctatccgacc tcttggaat atagtaaaat acacgtctaa aagtaagtgg tattttcact 180  
tttgcgcccg gaggttccc aactctatac ctacacctct caaagtcagt ttcacaanag 240  
tccggactta gaagtcaaag cttcaacagg nngtcttct 279

<210> 32340  
<211> 132  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D1

<400> 32340

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agttgacggc cc 132

<210> 32341  
<211> 60  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D12

<400> 32341

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<210> 32342



<211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-D2  
  
 <400> 32342  
  
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 cgaccgccgc accatctgcg ggtgcctcaa gaacgtcgcc aacggcgcca acgggagcgg 180  
 cacctacatc agccgcgccg ccgcgctgcc cagcaagtgc ggcgtcgccc tgccgtacaa 240  
 gatcagcacc aacgttaact gcaacacgat tgattaaatg aagcgtcctg tgcgcgtccg 300  
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<210> 32343  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-D5  
  
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 aggcgcgccc cgagtgcctc tgctacatca tccagcagac gcacacgggg cgcaaccagg 180  
 tgcagtcgct cgggctgcgc ttcgaccgac tcatggcgct ccccgccgcc tgcaacctcc 240  
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 acgcc 306

<210> 32344  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-D8  
  
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gaacttgctc ggccctgcaa ccttggaag gttaagggag cacttgacaa atccagcaac 120  
 agttccagca acttgcgatt cgtaacccaa gcttagccag ccaagctggt cagatggcac 180  
 cagcgtcaag caaatctgtt aggttcccat tgcgccctgg caagggtagc catgggtcca 240  
 ggtgcattgt gaaggcaaat catttctttg ctgagctgcc taataaagac cttcaccaat 300  
 acgatgtatc aataacaccc gaggttactt cacgcggcgt caatcgtgct gtcatggcag 360  
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<210> 32345  
 <211> 436  
 <212> DNA  
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<223> Clone ID: LIB3068-045-Q1-K1-D9

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 tgacacctct aagctgctca tttttagtg ggatctggtg ggcacttggg aaggcttgat 180  
 aacctaatga gcatggatga ccgaaatatt tttctttgga acgtagacat gtcaaataaa 240  
 tcagctaagg tgatctcaca gggatcagct gacatgcttc caaatttgag tgggtggggct 300  
 tgggatccac acaatcataa ttcaattgct tcaatatctg attcatcact tcatttgtgg 360  
 gatctacgtt ctatggaaaa atcatctgca attgaaatgc acatatacgg gatgtggatt 420  
 ataaccccaa aaagca 436

<210> 32346  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-E10

<400> 32346  
 aaaaaaaaaa aaaaaaaaaa aaatatatta taggcaaacc atataaaaaa aaacaagggg 60  
 gggatctcat acatgcaaac aaataaacta aactataaag acacctaaat ataaatttaa 120  
 tgtaacaaaa attaacggcc ttctcttttt taaaaaccct gccttttcct ccacttgaa 180

taccccttgc aacacatttc ttcttttggc cacctaactt aattgccatg agccccgttc 240  
 tacacgcctt tcccaacaaa acccctgcct taaccaaaaa taagaccctc cctgtaaatg 300  
 cccttt 306

<210> 32347

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B12

<400> 32347

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 catctaaccg atgggctgaa gctgccaggt ttgcgttgc tagaagcctc acatcatcac 120  
 atagtgcctt ccttgcatta gaagctgccg agggaaataa tattctgagg agaacaaagg 180  
 atgctgtaat cactctgcaa agcgtactgg aagggaagca caatactgaa atcgatgaat 240  
 ctctaactca gtatcaggct ccagctgacg gatgggtggc ttactttac aaagtgatcg 300  
 aaagcctcgc cacaatgagc agattggggc gcaaccgtct gcagcaacct tcttataatt 360  
 ttgagaacaa caattctatt gactgggcca aatgtagatg tagaattctg gatcacaac 419

<210> 32348

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-E8

<400> 32348

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 atgggataat ttcttaaaag tattaacctt tcccaagggt gtgggtcccc ttcttacggg 120  
 tcagtgggat ctttatgccc aaaaaactga ttcgagtaat cattttattg gtaccactca 180  
 aagagcggga actgccattc tgacccttct tgggggattc catccacaaa cacaaaattt 240  
 gtggctgacc gatattgctc atcatcattt agctattgca tttatttttc tcattgccgg 300  
 tcatatgtat cgaactaact tcggaattgg gcacagtatc aaagatcttt taaaagcaca 360  
 tactcctcgg ggg 373

<210> 32349  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-F10  
  
 <400> 32349  
  
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 gcctttcttcg ctgtgcccg cgcgcgcgag cagtgcgggt cgcaggccgg cggcgcgctg 120  
 tgccccaact gcctgtgctg cagccagttc ggggtggtgcg gcagcacctc cgactactgc 180  
 ggcagcgggt gccagagcca gtgcagcggc agctgcggca gcaccccgaa cccgccgagc 240  
 agcggcggcg tggcgtccat catccccgag tcgctcttca accagatgct gctgcaccgc 300  
 aacgacgcgg cgtgccccgc caacggcttc tacacctacg cgggc 345

<210> 32350  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-F5  
  
 <400> 32350  
  
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 cgagtcgctc ctcccagact tcctctacgg ctctctggcg cgctctttcg ctgccacagg 120  
 agccgccgcg cgctccctg tctctctccc ggcgcctgcc gcggctggag catgaggcgg 180  
 cgtgccgttc tcgatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240  
 tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccacatgg ccgtcacgcc 300  
 tctcgacctc gtcaagtga atatgcagat tgaccaaacg aaatacaaga atatctcatc 360  
 tggatttggt 370

<210> 32351  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-G11

<400> 32351

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cgctagtccc gggggggccag cggcgcgacc agcgggtgcag ccaaactcag gaaggagtag 120

ggcagtggcg cggccagcat ctccacggcg cacgggtgct accagttcag taggcaggcg 180

agaggaacgc ggtgctgcga cggctcggcc gctcggcgcc tctgctgc tgcgcagtct 240

gtataagcgc agagcagcag agcagacaac actcagctac aacaggaagc cacatggtgt 300

tgaatgctgn tatctgttag actttctgag taggctaggt tagataagat atcattgttt 360

ttgacaaaaa attctgggtt caggatcaag atgagtagaa aaatatatgg tgaaaatgac 420

tctgagagaa ttgctagtga tgggacagc 449

<210> 32352

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G12

<400> 32352

ctgacgcgtt gggtagctcc ctccatctga tcgctctcgc cgcgcaatca 60

gcttaatcta ttccggcaga aggggacgac cacaggcca gcacaatcga gcacaaactt 120

cagaaccaat ctttttacca tatttacgga tcaactttgc taacttttca ttactacatc 180

gatacaaacg ccatactctg accactttgg agacctgatc ctgctacgag ctccacactc 240

tgtataaccg cataccatca taccaaacat cactgacctt caacagcaca ccacatactg 300

ttcaatgctc gtatctgtta cactctctta atacgatatg ttacataaca cattataggt 360

tttgacaaaa attctgcatt caagatcaat attactttaa aaatata 407

<210> 32353

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-G3

<400> 32353

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 aaaaaaaaaa aaaagggcaa cgggacgggg ggaacaaaaa caggacggac ccacacaaac 120  
 aacaaaaaaaa aaacaagggg cggcccccca aaaggaacca aaccgcccgc cccgggacaa 180  
 caacngaac agggaaaacc cgggcccccc aaaacaaaaa caccggccgg cgcancccaa 240  
 cgncgccacc gggaaaacca ggagaaagcc cccacacaaa ccccgaacc aaaacccccg 300  
 caaccgaag ggcgaaaaag acacgcccc 330

<210> 32354  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-G6

<400> 32354  
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 cagcgaagcn cggagacgga gagcngaagc cngcaggcaa gcggaagnnc aacaccaagg 120  
 aagaggagcc agaacagnac nggcagaccg cgggggagag ggagggggag aaccccanga 180  
 ngacaccccn gcccnacanc ancancnncg gcagggccac ccccnncgac aaccgcgcca 240  
 acgccnncgc caaaggcngg aacaaggnc cngngcgaag accgnaacgc gancagccag 300  
 c 301

<210> 32355  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G8

<400> 32355  
 aagaagccta ccggctcggc ggctccggct cacctccac acccccaaaa aaagtctggc 60  
 gtgccgccgg cggccaccac catcactgcc atgatcagca tcctcgcgca ggagcgcctc 120  
 ctcggttcg ccctgggttc cgtctccatg ggcggcttcg tcctccacca gcgccgggcc 180  
 atctaccgtt caatcgctga agccgacggg tcgccctact ttaccagcc tggtgaaatt 240  
 gccagtcgaa gaagctcaac tgaactggct catgtatgga acaaggcagt ggacgagacc 300

cttgggcgac ttgttgtgta ccttagttcg cgtgggtggt gattcaagct ccatgttgaa 360  
catggtaacc gaggaagact ctttttcaag ccactgatgt gctcatactc gataacttccc 420  
tggtccccgg atgaacaagt ttttaatt 448

<210> 32356  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G9

<400> 32356

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggag gaccctgctg aagagattag 60  
ggaggcaccc aagcgcgact cgagtgaggg gcagtaaagc cggctttatg tgcctagaaa 120  
ctagtagcta gtgtttgctg ctgtcgaatg acactatgca atgtgatctg gaacctggtt 180  
tcttgggtgc gacgcttggt atgactgtcg tcagtaaaat ttgggggctc cccgtatgag 240  
atgctgccgg gcaaggcctc ggtgtccac ctcgtttgtg gcggggggcg ctggagcccg 300  
gtctggttgg gttgggaagc cctttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420  
aaaaaaaaa aaaaaaaaaa aataaaaaa aagggggggc c 461

<210> 32357  
<211> 337  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H1

<400> 32357

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gaannggaan gagnacaanc gagaggcnn aacgagganc cannggaggg caagnncngn 120  
gccagcagcc gcggnaannc cagcnccaan agcgnanann naagnngnng cagnnaaaaa 180  
gcncgnagnn ggaccnnggg ccgggccggc cggncgccn cacggcgaga accgaccggc 240  
ncgaccnnc ngccggcgaa gcgcncngg ccnaacngg ccgggncgng ccnccggcgc 300

cgnnacnang aagaaannag agngcncaaa gcaagcc

337

<210> 32358

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H11

<400> 32358

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ggactggaga aggatgctta gtaaaaaagg agaaatcctc actaaggagt tagctgagct 120

tctagagttg gtgaggttga aagaagcaga gatagctgaa aacaatgccc ggatccatga 180

agttcaagaa agaatcagtg cagtgggtctc cagattccat ggttctcagt cagatattga 240

cttgaagctc agttccttga aggaagacca aagtaaagtg gatctagaga ctgaagcact 300

tttgttgaag aagaatgaaa ttgataagtt cattacttta acagatcaaa aggattcaga 360

gttgagggac ataattgggtg cttgttcctc tgaagcanaa gcttgtcgac aatcagttga 420

aataagaaga aagcttgcat catcgatctt g 451

<210> 32359

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-H3

<400> 32359

ccgggcccgc cccgcgtccg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aggaggggaa aaaaaaaaaa ggggggaggg 110

<210> 32360

<211> 225

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H5

<400> 32360



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 aaaaaaaaaa aaaaaaagga aggagaaaaa aaaaaaagag gaagggggcg gacggccnag 120  
 gggaacaaag ganacanacg cgggcaggcg aggaaaaaac ncaaaaaagg gggcaccgaa 180  
 acacaaaaaa cgggccgacg ggcaacaacg aaaaaacggg gaaaaa 225

<210> 32361  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-H9

<400> 32361

gtcgctctc aagcctgata tccatcgac aagccctgcg tggcgcagcc cggctctaatac 60  
 agaaacccct gctctctctt cgcgttgagg gtccagtttc cttgtcctcg actccttcca 120  
 tgtctcccaa ggacaagctc aagctcaaac gggtggcccc aggccaagtg gagctctcct 180  
 cacaggcggg ggcaatccct gctatcaccg aagacgagga tgaaccacat aaccctggat 240  
 tgtggcctct tttgtctctg aatggttcag atggcagcct gcagggggtt gaggagctat 300  
 tggcctcagt acttggaag aaggcaggcg agaagggtac cttcaagcta ctgaaggcac 360  
 gggcctcggc tcaaacctat gtcaagatgg cattcacggg ggagaagaag cttgctgaag 420  
 gggatgtgaa ctgggtcaaat attccagaat ggaa 454

<210> 32362  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A10

<400> 32362

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 cgttgactgc accaacgaac gggcctgcaa caactgccgt cagccagggc acatagctcg 120  
 ggagtgaag aacgacccgg tctgcaacct gtgcaatgtc tctggccacg tcgcgcgcgt 180  
 ctgcccacaa acgactctgg cttcagtgat acagggcggc ccgttccgag atatcctgtg 240  
 ccgcatctgc ggtcagccgg ggcacatcag ccgcaactgc atggcgacca ttatctgcga 300

cacatgcggt gggagggggc acatgtctta tgagtgcctt tcggc 345

<210> 32363  
<211> 281  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A2

<400> 32363

tattcggttg ccatttgctg tcaacatggg tcccgtgttg ctgtcttcat ttgtctatta 60  
tctatgcata tttcaggtcc acagatacgt ggaaggtctt tggtgggcta tgagatacta 120  
ctatcaacgt gtttgttcat ggcagtggta tgtaaatt gaccatctac tgtgagaatt 180  
tgctatcgca ttttctgtgg cagataaaac atcaattgat tgagtgtgaa agtattattc 240  
ttcacttttt ttgcaaagcg caggagaact gcgcattcatt a 281

<210> 32364  
<211> 369  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-045-Q1-K1-A3

<400> 32364

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gccggcagcg cgtggcgctt cgccatcctc ttggtgctcc tggcggcgct accgctgctt 120  
ggcgcgacgc agaaggccgc gccagggccg gcgtcgctgt cgggctcggg cgcgggcgcg 180  
gcggacgcgg cgccgccgac ggacgtgaac aaggcgctga aggacgagca gttcagcgag 240  
ttccggcagc tgctgcacga cgcgcgctg gacacgcaga tcaacgcgca gctgacggac 300  
agctacaacg ggctgaccat tatggcgccc accaaccgct tctttgacaa gatgaaggcg 360  
ggcgtgctg 369

<210> 32365  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A6

<400> 32365

gcaaaccctg ccttgggttca actgacgtgg ccgcctcggt cccggacagt acaccttggc 60

atcttcctct tcgactacca catcggccga accccaaccg gtgaggatgg ggaacatttt 120

cgcgaacaaa cccaacatta ccggactgga cagggccatc ctcaccctga agacgcaccg 180

ccgcaagctc gccagttcc agcaacagct tgagaaggta attgaagcaa aaaaggaagc 240

tgcactgcaa ttgggttcaac agaagaagag agacagagct ttgattgcac tgaataagaa 300

caaagctcag gaagagctgt tgaacaatg tgacacatgg caaatgaatg ttgaacaaca 360

gc 362

<210> 32366

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A8

<400> 32366

gctgaacgcg ttccacctca tctctttctc ggagggcttc gacctgtccc cgctcttcga 60

ccagggccgt ggcggcgcg tgacggaggtc tagcgcgggc ggcattccgtt tcgtgacgcg 120

cgagggccgc agcagcggtg tctcccgctc ggagtcgctg gtcaccggac gcggagccaa 180

catgcgctg acaaagagcg gtcgcgggg cgtttgtttg gaggccgtgt cgcgcgggcg 240

ctctgaggcg cggctggcag tggccgcgga gatc 274

<210> 32367

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A9

<400> 32367

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gtcacacgtc tgtaacaacc ttgatcttca gtgaaggatt cgagttgtat cactccatgc 120

gagaccctaa agaagagcaa ctatg 145

<210> 32368  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-G1

<400> 32368

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tgatgctggt gttgcatggt acttgtatcc aaggcttggg tacctccctt atgttagcac 120  
aactgaggaa acagctatct cttcattgaa gaggtcgctt ggtgctctga acacacacct 180  
tgctcaaac acataccttg ttgggcatgc tgttactcta gctgacattg tattgacatg 240  
caacctctac catggaattg cacggatctt gaccaagacc ttacagctctg atttccctca 300  
tgtcgagagg tattttctgga ccatggttaa ccagcctaac ttcaagaaag tcattggtga 360  
ggtcaagcan gcagagtctg cacc 384

<210> 32369  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B1

<400> 32369

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ggccatctac atcaaccggg tgcagctcaa gtgctgcaca caactgcaac ttctccttgt 120  
cggggctcta cacctgcgac gacatcaaaa agcgactgcc acccgtctg caagaagtgc 180  
gtctgtcgtc gtgcacgcgt actactatgg caacaacaag atcagggtgca ccgacacctt 240  
ccgtggcatg agcggcccca actgcttgat catagatgaa gaac 284

<210> 32370  
<211> 262  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-D7

<400> 32370

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 gagcacnagc agccgccggg aaaccaccag aacagcgcca acaaggcccc cgcncncgg 120  
 caacaagccg cccagacgga caccgccgcg cccccgcaac cgaaagccag cgccggcgac 180  
 gccacggaga agcngcngcc cgccgncgca gccgagggcc ccaccagggg ggggccagac 240  
 accaagacga ggggaaagaa ga 262

<210> 32371  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D8

<400> 32371

cggccggaat cccggtcgcc cacgcgtccg gtcgccaaagc cagcctggtg tgcgttcgat 60  
 cgctttgtgc actagggttt agaggttttc tgggcgcgga gcggcggcgg cgccggcggc 120  
 ggctatggct gcggcggagg aggagatcgc ggtgaaggag ccgctggatc tgatacgct 180  
 cacctcgacg agcgcatcta cgtcaagctc cgatccgacc gcgagctgcg cggcaagctc 240  
 catgcgtatg atcaacattt aaacatgata cttggagatg ttgaagaggt cgtgacaact 300  
 gttgagatag atgatgaaac atatgaagaa attgtgcgca ccacgaaacg cactatcccc 360  
 ttcctttttg tccgaagtga tgggtgcata 390

<210> 32372  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-E10

<400> 32372

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 cgggtgtcgc cgcggtcggc ctccggtcc tgcggaagca gctcagcaga cccctactgt 120  
 gtcccagaat tcgggtggcg ggacgttggc cagtacaagc agttcctgtc agtcgacacg 180  
 aacatttctg ccggcgacga ctccgctctt gaccagagac tgaaggcgct gctcaggaag 240

ctctcttttg ttgacctagc aggcctctcc caccagcata ataggctggc gttctggatc 300  
aacacctact actcctgcat gatgaacgca tttctcgagc agggagcgcc tagcgacccc 360  
cgtatgctgg tggccatgat gcccaaggcg accatcaacg tngcgggcg cgtgctgagc 420  
gccgtggcga tcgagcactt cattc 445

<210> 32373  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-E11

<400> 32373

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gtgcgccggg acggtcaacc tggaggagcg gcagaggccc gtctacgacg aggaaagctg 120  
gaccgacgtc gacttctgcc gtcgctcaa gatgaccgga tggatgtact tcgtgtctaa 180  
aaccctggcg gagaaggcg ccctggcgta cgcggcggag cacggcctgg acctggtcac 240  
catcatcccg acgctcgtgg tcggcccggt catcagcgcg ttcatgccag ccagcctcat 300  
caccgtgctg gcgctcatca cggggaacgc gctccactac tcgacacctca agcaggtgca 360  
gctcatccac ctcgacgacc tctgcgacgc cgagatcttc ctcttcgaga acctcgccgc 420  
ggccggggcg tacgtctgct cctcgcacga cgtcaccat 459

<210> 32374  
<211> 406  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-E12

<400> 32374

cccacgcgtc cggtaccgcg gccctaacc cctttctctc gttccctcc gtctctcagt 60  
gaggcacaat gatgctagct aataagcttg gtggtctgct caagaatgct acgagttcaa 120  
atatgtctgt ctaccaagca atcagatgca tgtcatcatc caagcttttt gttggagggc 180  
tttcttatgg aaccgatgat cacagtctca gagacgagtt tgccaaatat ggacaagtta 240  
ttgaagctaa gattatcctt gatcgtgagt ctgggaggtc ccagaggttt ggctttataa 300

cttacacgtc ttctgaggag gcttcngctg ccatcactgc catggatgga aagactctgg 360  
atggacggaa catacgggtt aatcatgcta acgagaggac aggtgg 406

<210> 32375  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-E4

<400> 32375

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gcaagagact ngaccacaat attggcacct atgcttgtcc caacagtga tagtggagcc 120  
ttaggatact cttgatgaag gaaactaaca acttcacgca tatctgccgt ccacccggca 180  
ttgtaaaagc aatcagatgt tatggagatg ccaccaagac ccctgtgggt gcttacaaca 240  
acattccatc ctttgattgc catagaaaag accaagtgtc tcacataagc agcactagaa 300  
tcactagtta atccaggtat cacaacaaga aggggtgttg aatcatcctt agaaatgggt 360  
ccgtcagaag tgccaatatt tccatcttca aaatcagaag ctagtaacca atctaaggca 420  
at 422

<210> 32376  
<211> 244  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-E6

<400> 32376

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ccaacgacgc ccaagccgac cccaccgacg nacacgcccc cccccaagcc accgacacca 120  
aagccgaccc cggcgacgaa cacaccaagc ccaacgccac cggcgaccaa gccgagcacg 180  
cccaagccag agcccgccaa cgaacacccc cccgccaaag ccgcnacac ccaagccgac 240  
cccg 244

<210> 32377  
 <211> 229  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-E7  
  
 <400> 32377  
  
 ggagagaata acgcagagct ctctgtctcc ggctgtctt ctgccgtccc ggccgttttag 60  
 ttactagtgt tgttcgtcct atatgttttag cagcagcagg tgtattgtgc gggatatgtaa 120  
 tggatttgca actatatattgg gtgtaaaacc ataataaatg tgggcaaata tgcaaggaaa 180  
 aaaaaaaaaa aaaaaaaaaa aacaaaaaca aaaaaaaaaa aacaaaagg 229

<210> 32378  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-E8  
  
 <400> 32378  
  
 cggncgggaa nccccggggg gacggacgcg nccgcccacg cgnccgnaaa aaaaaaaaaa 60  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gaaagaaaaa aaaaaaaaaa aaaaaggaaa 120  
 aaaaaaaaaa aggggggggc gcccaagagg acccaagcna acgaacgcgg gcaggcgacg 180  
 acaaagcccn caaaaggggg caccaaaanc aaaagcacgg gccggcgnnn aaaaacgccg 240  
 ggacggggaa aaccggggg gaaccgaaga gaagcgccg gaagcacacc cccnnncgc 300  
 cagcggggga aaaagcgaaa aggcgggcac cgaccggccn nccaacaan ggcccagccg 360  
 gaagggcgaa ggggacgcgc ccgganacgg cgcaaaaagc gcggcggg 408

<210> 32379  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-E9  
  
 <400> 32379  
  
 tgttgacgtg tgtggaacta gttaatctgt agacttatat cgtcatgtgt tcaactggtg 60



gggcacacat atttagcact ggtgttaaatt ggaaatagtg agtgatatga tcttcggaag 120  
catatcacgc aaaaacaaga aatggtacat ggtgtacatc cttgactgga tgattttttg 180  
atgtcatata cagcgogaag tcttcttctt gcgagacaaa aagctatatg acgttcagac 240  
aacatggtgc tgcaagatat aacataagat cattgcttgt tcaaaaaaaaa accatagatc 300  
caattataat tccgaaaaaa aagatactgt ttgccagatt aaaatagtct acattgatcc 360  
attggaaaaa aaggctcgtca catttaaaac atccaaactt 400

<210> 32380  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F12

<400> 32380  
cgccgccggc ctgcgccgcc gcgccatcgt ccaggtctcc tacgccatcg gcgtgcccga 60  
ggccctatcg gtgttcgtgg acacgtaccg gaacggggcc aatcccgaca aggggatacc 120  
tgagaatgcy aaaggagaac ttgaatctaa ggcccgggtgt gaacataatc aacctagacc 180  
tcaagaaagg cggaacggg ctctacctaa agacgggggt ctacggacac tttgagaggc 240  
acgaccgaga cttcacctga gaggtggtga agccccctcaa ggcggaaaag ccgtcttctg 300  
catgaggcgc ctctctgtt tcagaagaag cttttggtct ggtctgcctg cgctctatca 360  
tgctttatta tggctcctac gtgttgatgat tcttgatctg ccccttgctt atcatttgta 420  
ctgtactgtc actgtcctaa taagtgttac gtgtgc 456

<210> 32381  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F2

<400> 32381  
cccacgcgtc cgcccacgcg tacgggcgca gatgatcctt gacaagaaat ttgctgggac 60  
actagatcaa ggtgctggct gcctcattat ctttgaggat tctaagacgg aggatatctt 120  
ccctgccact ctcgaaacca tttcgaatgt cggaagggtt gtggacagcc tttatgtgag 180

ggcggccaag atcatggctt gaaagcagct agtcttacct gtttgctctg atttcatttc 240  
cagtctgtcg atgtcctcag acatttattc cttcaatatt gacagtttat tgtgaccgct 300  
acaggttcat gtgaccaaag gctagctatt tttagcactg aatgagttat gcatgtattg 360  
gtcttttaat aaaaaaaaaa aaaaaaaggc cgggc 395

<210> 32382

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F3

<400> 32382

cccacgcgtc cggggaggga gagacggcaa ttgcatttgc tgagagagta agggacatga 60  
gggctgctag agctggacta aagaagggtc cttgggatgg ctatctgaaa cacaaccgct 120  
ctagtcccaa acacactgaa gagaaacaac gcatatttgc cgaatctgtc ttgatgagac 180  
tggaggagaa atgaaggac gtcaagccgt acaagtgcac ttcgttaggg ttttacatgc 240  
agctaccttg taattcgggt ggcttccagg aaaaaaaaag tgagcctggg acacgtcaag 300  
tgaccacctc agttttgttg taaatttggt actagtttga taggattatt agtatgtgct 360  
tatcaggaaa agaattctca gtatgtgttt tggctgcca ttcaatgaat ggtcagtga 420  
taacaccg 428

<210> 32383

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F4

<400> 32383

cccacgcgnc cgcccacgca gacggaccca cgcgncgcg gacgcgaggg caagcacagg 60  
ggcaggcnan caanggcggc ggagggngnc cccccaagcg acaccgagcc accaaaggca 120  
caagccgaca naaggcgga cagccacacc aaccacacgc ccagncacn gaggagcgcc 180  
gnggagcnag gcaacccac ggccaacaac cgccaaggcg gggcngccnc agccgcagag 240  
ccggacacgg cgcngncncn cccnccacg aaacagccga gccaccgccg gcagcngcgg 300

caacaagccg cggcgggcg gggcaccgnc gacaagcaga gcacggagga agagcgg 357

<210> 32384

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F6

<400> 32384

cccacgcgnc cggctaaacc ctnnngncca cacgagagnn cngncncgng gagcggggcn 60

nangacaccg ngcggancnn nnaacagang ngccgccccca gccaaacncc ccaccngaca 120

angncnnccg cccggancgg cccggcgagg cggggccnng gagccaaaag gaggggcggn 180

gccccgcnn cgcaccacgg aanaagnaana anaacgnnaa aagnagnggg aggnacnng 240

cgcccgagg cncacacna nccnacaccn cncaagnan nncacaaagn cggaccagag 300

ncaagcncaa cagggncnnn cnnccccgc ggaaaccgcc aagccc 346

<210> 32385

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F7

<400> 32385

cccacgcgcc cgaggcggga ccaccgcng aananaagca ganaanaaa cacaggagag 60

gaaacccacg aggacggccc gagaaacggc gagcgaaccg ggagcagacc agccggagaa 120

ncgggcggcc ncgccgccc aaaaggagnc cggagaggcg gcccagcga cggaccgggc 180

ccaaggaccc cggaaggga cgccaggag ggngagagcc ccgcccggcc cagaccagg 240

cgcaccacga ggcgccgga acgaggcagg gcgccggga acgcagcca aaccgggcgc 300

gaaaccccg ccaaggcnaa aaacaggcga gagacacgaa gcgaacaagn accgcgagg 360

aaagaagaaa aggacgnnga aaagag 386

<210> 32386

<211> 345

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-D6  
  
 <400> 32386  
  
 cccacgcgtc cgaaaaccca ctccactcc tccgacgtac accccgaccc ccaagcctgg 60  
 gacacctaag ccgaccccg cgcgtacac tccaagcccc aaaccttcga cgcccaagcc 120  
 gacccacccg acgtacaccc cttcccccaa gcctccgaca cctaagccga ccccgctac 180  
 gtacactcca agccctaagc caccggctac caagccttcc acgccaagc cggccccgnc 240  
 aacgtacacc ctttcgcca agccttcgac acccaagccg accccgccga cgtacacccc 300  
 gtcttccaag ctttcgacgc ccaagccgac cccgccgacg tacac 345

<210> 32387  
 <211> 111  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-F9  
  
 <400> 32387  
  
 cggacgcgtg ggcggacgcg tggggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggacaga caatataaaa a 111

<210> 32388  
 <211> 89  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-A8  
  
 <400> 32388  
  
 cttttattct caaagcgttg ataaaaagct ttctcttcat ctgtatattt tattgttaat 60  
 gaaagaaata aaccactata tatttcgac 89

<210> 32389  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-B1

<400> 32389

gaccacgcg gccggaagaa accgacgagg annccccgag naacggcgag cgaaccggga 60  
gcagcccanc nagagaaggg ggcggccnca ccgcccgaca agaanacagg agaggcgacc 120  
acagcgacag accggggccca agagcacggg aaagggacgc cagggagggg gagagcccca 180  
gccggcccgg acccngacga accacgaggc gccagcaacc aaccggggcg accgggaacg 240  
caccacaaaa acagcgagna acaccggca aggc 274

<210> 32390  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B10

<400> 32390

cccacgcgtc cgcacagctt ctttgtcgaa tgcttcaggc actcggtaat tctagaaaa 60  
ggttcggtaa agactttgcc gagtgtagct ctcggtgaac tgtatatata atatcatgac 120  
atgtcgataa agttcatgat tttctgactt cgtttgttgt ttatacaatt ttaaaactac 180  
tagatctcaa gttcacattc atgttttgtg accatgatac tcaaaaattc tggctctgttt 240  
ttaaaatagg tcgtaaaactg tgctaaaata acataaatat cattttttgc attcactgtt 300  
ttctatTTTT tgagtgactt acaattcaaa tatgaattat ctgaagaaat tcaattaaaa 360  
gaactaaata taatagctat agctaact ttgataatta tgtcaagatg gaacatgtat 420  
ctctatatag tgtaagaaca tagtagaaaa aatttgct 458

<210> 32391  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-044-Q1-K1-B2

<400> 32391

ggggcgaaag gggaggggaa ccancaagga gccggggccc nccaagaaa accaaaagaa 60

agcgggagcc cacacaagan ccaacgggaa aagccaanga ngagaggcan cgggggcgca 120  
acgcccgcga ccaaaacaca aacacnaaac aggnaggacc gcccggcngc cncggagagc 180  
ccggccacgg aaccaggagc cccaaggggg ccacaaaccg gcaagcagaa caggcgaagc 240  
aggaagaacc ggaagccggg gnacggggcc aaacagcg 278

<210> 32392  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B4

<400> 32392

cccacgcgtc cgcgacgcg tggggtaccc tgacctggag gagacgagca ccgccgcgcg 60  
ggccaccgtc gtctcggcg tggccccgga gaagaaggcc gcgcccagat tcgtcgaggc 120  
cgcgggcgag tccggcgagg ccgccacgg ctgcagctgc ggtggcaact gcaagtgcga 180  
cccctgcaac tgctgatcac atcgatcgac gaccatggat atgattatta tctatctagc 240  
ttgtggtggt ggttgaacaa taataagcga ggccgagctg gctgccatac ataggtattg 300  
tgtggtgtgt gtgagagaga gagaaacaga gttcttcagt ttgctatctc tctctgcatg 360  
tttggcgta gtctttgtgc tcatgtacct acgtgtgtct acctg 405

<210> 32393  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B5

<400> 32393

cccacgcgtc cgcccacgcg tccgcgacg cgtccggcca cgcgccgcc caccggtgcg 60  
ggcacgcgtc cgcccacgcg tccgctagtt ctaatcgca 100

<210> 32394  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B6

<400> 32394

cccacgcgtc cggccatcac cctgctccaa gatcaagctc agagagttca ttcactcaac 60

agggaactgc tatgcaaagg ctgcggtac agtcaggcct taacaaaggc cagcgtccta 120

gtactgatga ttcattcaagc tgcattatag acgaaccagg aagtcagcac aaagcagaaa 180

aagcagagat tgaagaggat gcgagtacaa acctcgctgg aagtgcgtgat gatctacctg 240

gtaatatcca tgatgatgag caaaagaaca tccctgaaca tgggtgctgaa atgacttctc 300

cagaagccaa atctgttctg aggttgcgga agacttctga ggaaggcaac aaggatgtca 360

agcaggagag ttggctcgag ccacacgtga gagcaccaat g 401

<210> 32395

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C11

<400> 32395

ccgacgcgtc cgcgtactcg taccgacgcc cttttcaatg tccacgaaat ctatactctc 60

gacgtgctta tctcagaca tgtccgatct gttgtaacag atgtcccggc ccagccgaac 120

tcagcacctg aactgtctt ccacgccgat atgacctgct agcgactgcc ttggagccta 180

aacgagtggc tgtgcaccgc ttgcgaccca cgtactgcgt atataacgct gatgtactgg 240

tatttcaatc gtgcacagag gctccaactt atcctacaac tgtcacgtca tctgccaatg 300

tctgactaac gtcaacctga acatgatctg ccttaacggc tgattccgcc aaagca 356

<210> 32396

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C12

<400> 32396

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ggggttcttt cagcatgt cgagatgtt cacacagatg cccacgcga gccgatctcc 120

acatctgaca ataccttaca cgccgat 147

<210> 32397  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-C3  
  
 <400> 32397  
  
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 cgnggccagg ggggcccncc agagcgagga ngncgagccc gncgccgnca acgaccccn 120  
 cancaccacg gaccacanga ccnacaagnn caaggacgac accgnccacg gccaccggaa 180  
 gcacagcgac ancacacgca aggaccccaa gaccnncnc nncggngaca agccggncac 240  
 cgncnnnggc ancaggaacc cngaggaaaa ccc 273

<210> 32398  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-C7  
  
 <400> 32398  
  
 cccacgcgtc cgcgagcgcg tgggcaaggt tctgcaatct gtgaacccta ttatgcctga 60  
 ggaggtagtc cttgggcaat acgatggcta caaggatgac cctacagtgc cagatgactc 120  
 gaatacccca acttttgcatt ctgttgttct tcgggtacac aatgaaagat ggggaaggtgt 180  
 tcctttcatt cttaaagctg gtaaagcatt gagttcaaag aaagcagaag ttcgggtgca 240  
 attcaaggat gttcctggtg acatttttag aagcaagaag caaggaagaa atgagtttgt 300  
 tatacgctc caaccatcag aagccatgta catgaaacta actgttaaga agcctggggt 360  
 agaaatggct actgaacaaa gtgaacttga tctgtcatat gggatgcggt accaaaatgt 420  
 caaa 424

<210> 32399  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-044-Q1-K1-C8



<400> 32399

cccacgcgtc cgcccacgcg tccgtgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggaaa 60

gaaaaaaaaa aaaaaaaggg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaagg gggggccggtt aaaaaggaac aaagggttaac gaacccgaga atgcaaaaaa 180

aaaaatttgg tatagggtca ccaaaattaa attaacgggc cggggtttaa aaacggagaa 240

actggaaaaa cccgggcgaa accaaaataa atgggctgga agaaaaaac cttttcgcca 300

gttagcctaa tggcaaaaag gcccgaaaccg atcgc 335

<210> 32400

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D1

<400> 32400

cgggccgacg cacgcgnncg gnnaaaaagc ncnagnnngg accccggggc gggccggccg 60

gnccgccnca cggcgagagc cgaccggcnc gaccnncng cggcggaagc gcccnggcc 120

anaacnggcc gggncnggcc nccggcgccg nnaccccgaa gaaannagag ngcncaaagc 180

aagccancgc ncgggagaca cnagcacggg aaaacancan aggannccgg cccacccggg 240

ggggccgncg ggaccggagn aangannaag agggacagnc gggggcaagc gaaaaacaca 300

gccagaggcg aaannncggg gaccaggaaa gacgaacaac ngcgaaagca cccgccaagg 360

agggggnca 369

<210> 32401

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D10

<400> 32401

aagtcagaat cagaacgagc ttttacgctg ttgttcaca cgagatttct ggactggctg 60

cgctcatctt acgacacctg cggtatctgt caacagatgg gccgccccag ccatactgtc 120

cacctgacaa tgtatttcgc ccggatcgga ccgacgagga cgtgcctagt agcccatcgg 180  
 agggtcgggtg cccatcttcc gacccacggg ataagttaca tcaccgtaaa ggtagcggta 240  
 tgtcacttac tgcccggagg ctcccactca tcctacacct ctgaagttat tgcacatagt 300  
 gcgactagag ctacgctaca cacgggtattg tcttccagtt gattccatcc agcccgatcc 360  
 cttggctgtg gcttcgctgg atagtataca tggtcagtgg gaatc 405

<210> 32402  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D11

<400> 32402

cggacgcgtg cgccggacgcg tgggcggact cgtggctccg agggcagaca gacttcctgt 60  
 ggagccttaa cgtaatatga ataagaagct cattgggtgc cccattgtga cttgcattcc 120  
 aaatgactct actgcaaaat ctgatatgta tgctgctgtc tcttctgtct tggctccata 180  
 tgtaagatca aaagcacata accctgatgt gtctgctgtt aagttaaag gcaatgggcc 240  
 aagtttgac ggcatgtcc tgaccgataa tggcaccacc agtgaagagg gtctatctac 300  
 atcaaaatca aggtaggacc ataatgcagc tgacaatgag cttttaccgt ttcagctttc 360  
 attgactgat gaaaaaggta gtacacaaaa tgctatagac atggat 406

<210> 32403  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D3

<400> 32403

cccacgcgnc cgcccacgcg nccgcggacg cgngggcgcc cgccgncgcc cncgcccagc 60  
 gccgggggag cncggagacc cggagncnnc cccaccccc anaacgncca caacngccga 120  
 gccnngcgnn gccgccggcg ggcgccgcaa gccngcgnng cccgcgggaa ccccgannng 180  
 gagnnaacna acggaagnnn acaannganc aacaagacnn agnccaaccc nacgagacaa 240  
 aacaccangg nnaccnncn caacagcnng gcaagcgnag aaaggcagac aaaangnnng 300

gcgcaaagaa ggaaagga

318

<210> 32404

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A7

<400> 32404

caggttaaga aatctgtgcc aaccttgccg atactgaacg caaagcccct agaggccacg 60

tccaagagtg atacgaggtc tacaaaagag aatcctccta gcaaagatga agacccatt 120

gggattgatg caaagaagga taaaaggaag ggatctaaac aagaggtaaa gggccttgaa 180

gagcttgaag tccagagtgt ttctacaggt atcaccactt cgaaccctgg taaacttgaa 240

gtgccagacg gtaaggaaaa gaaaaagggtc aaggaagcta agacgaagaa atctgaagag 300

ccgtaccatg ccaataacag tagcttaaag aacaaagaag ttcaatcttt tgtctatgat 360

accagcacga aagacaag 378

<210> 32405

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D4

<400> 32405

cggaancccg ggccgaccca cgcggccgcc cagcggnccg cccacnaaaa cacggacacg 60

agagacaaca gaaaaaacac acaccaaggg aagggggggc ggccgcacaa gaggacccaa 120

cccaaccnac gcgcgcacgc gacggcacag ccnngcgaga gcggcaccca aagccaaaaa 180

acaggccgcg cgcaaacaac cccggaacgg gaaaaaccca cgcaagacca cacaaaaancg 240

cccggcagca cccccccca acgcaggcgg gcagaanagc gaacaggccc gaaccgagcg 300

cccgcccaaa 310

<210> 32406

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D5

<400> 32406

gnnaaaaagc ncgaagangg acccggggcc gggccggccg gnccgccnca cggcgagaag 60

cgaccggcnc gaccnncng ccggcgaagc gcccnggcc anaacaggcc gggncnggcc 120

nccggcgccg nnaccccgaa gaaannagag ngcncaaagc aagccancgc ncngganaca 180

nnagcanggg anaacancan agganncgg nccaaaaggg nnggccngcg ggagcggagn 240

aangannaan agggacagnc gggggcannc gnannncaa gncagagggg aaanncnngg 300

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<210> 32407

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G6

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ttcatgctcg tcgaggtccc tgccagtgc ggcggcgccg acgacgcccc cgcgtacgtg 180

gtgatgcttc cgctgctgga ggggcagttt cgggcggcgc tgcaggggaa cgaccgcgac 240

gagctgcaga tctgcatcga gagcggggac aaggcgggtgc agacggacca ggccgcgcac 300

atggtgtacc ttcacgccg cgacaacccc ttcgacaccg tcaccgccgc cgtcaaggcg 360

gtggagaagc acctgcagac gttccaccac cgcgacaaga agaagctgcc gtcgttctct 420

gactggtttc gctggtgcac ctgggacgcc ttctacac 458

<210> 32408

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G7

<400> 32408

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tgctcgtcga cgtccctgcc agacacggcg gccgcgacga cgctccgcc tacgtgggga 180  
tgcttgcgct gctgcaggcg cagtttcagg cggcgctgca agggaacgac cgctacgagc 240  
tgcagatctg catcgagagc ggagacaacg ctgtgcatac ggaccaggcc gtgcacatgg 300  
tgtaccttca cgccggcgac aacccttcg acaccgtcac cgtcgccgtc aaggcgggtg 360  
agaagcacct gcatacgttc caccatcggt gacaagaata aactgccgtc gttccttgac 420  
t 421

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<211> 392  
<212> DNA  
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<223> Clone ID: LIB3068-043-Q1-K1-G9

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cacctacctg tccgagaaga tcgggtactg gaggtacatc accatcttca ggcacctcaa 180  
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cgagaacagg cactgcgact tcttctctgc cctgctcaaa gctcaatcgc agttcctaaa 300  
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cctgaatgac tgccaacgca ctgcattcta tg 392

<210> 32410  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H10

<400> 32410

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gatcaagcga ggacaccacc agagaccgac cggatcccgga ccgcgctggc tgagatcggg 180  
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<210> 32411  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H12

<400> 32411

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 ttacatcac tcctgaaggt tgtattagaa aatgataatt ttgaaggggc tctggatctg 180  
 cttgatatat gcaagattga aggacttcag cctggcatac agactttcaa cacagtactc 240  
 ttacgtgcat atgctagaag tcaaattcat gtccttgaat atattttgga gtgtatacat 300  
 cgatcaaaaa tccaacctga tccatcaaca ctttgggtaca cgttttgtgc ctacgaggag 360  
 catgaactgt acaatactgc aattgagtca ctgctagttc ttaacatgag aatgatatct 420  
 g 421

<210> 32412  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H2

<400> 32412

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 aagccccggg tg 132

<210> 32413  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H4

<400> 32413

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tctagtctcc agctctagct agccttagcc tcgtccaagg gacgaagggg ccaccatgag 120

cgtggtgatc ctggacggct ccacggtgcg cggcttcgtg gcggacgagg cggccttcgc 180

gcgcagcctg gacgcgcggt tcgccgcgct ggacgccaac ggcgacggcg tgctgtcccg 240

cgccgagctc cggcgcgcgc tcgagtcctt ccgcctcctc gacggcggcg gcttcggggtc 300

ccgccagccg gcgcgcgtcc ccgccgaggt cgccgcgctc tacgacgccg tcttcgagca 360

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catcatgc 428

<210> 32414

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-043-Q1-K1-H5

<400> 32414

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agagctgcca agtcagcgag gctcaggcaa gcaaaagagg aggctgagcg ggaaatagcc 180

gaataccgtg cccagatgga ggctgagttt cagaggaagg ttgcagagag cagcggcgac 240

tccggtgcaa acgtcaagcg tctcgaggaa gaaacggcgg cgaagatcga gcaactcacc 300

cagcaggccg caagcatctc cccggatgtc attcagatgc ttctgcggca tgtcaccacc 360

gtcaagaact gangagtgt gttcccgaac tatgctcgca gacttgtacc gtcgatctat 420

ttaatttttg tcaagagtga gagtgggtgag gaat 454

<210> 32415

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H6

<400> 32415

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gagagaatcc attcagaagc tggctgcgga gcaagaggct cagcaaatag agaatgccgc 120

tagagctgcc aagtcagcga ggctcaggca agcaaaagag gaggctgagc gggaaatagc 180

cgaataccgt gcccagatgg aggctgagtt tcagaggaag gttgcagaga gtagcggcga 240

ctccagtgc aacgtcaagc gtctcgagga agaaacggcg gcgaagatcg agcaactcac 300

ccagcaagcc gcaagcatct tcccggatgt catgcacatg cttctgcggc atgtcaccac 360

cgtcaagaac tgaagagtgc tgttcccgaa ctatgc 396

<210> 32416

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H7

<400> 32416

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<210> 32417

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A10

<400> 32417

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ggagtgtcat tgagaaagga ggccgcaaga tcgggtttga ctttgactat gatgagaaag 120

acaccagcta taacaggatc aagagcctgg tgaccgagga gttgaagcag tatttccggc 180

cagagttctt gaacagattg gatgagatga ttgtattccg gcagctgact aaattggaag 240

tgaaagagat tgctgacatt atgctgaaaa gagtgtttga caggctgaag gccaaagaga 300

ttaatctcca ggtcacggag aagttccgag a 331

<210> 32418

<211> 457

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A11

<400> 32418

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caacgacagg gaacgtgttg ttgaggctag agatgagctc cacaggatgc tgattgagga 180  
tgacctgcga cactctgctc tgtttgtatt cgaacacaca caatatttcc aaagctctga 240  
aaatgctgct aaaatctact gacaatctgg gtctgcattc tgtgaaacag gcactctgct 300  
acatgcagag ctcttgtaca acatgtgaaa aagggtatta tgaggttcac tagtgTTTTT 360  
ccagcaacat ctccagcaag tcttgaagct tttcggcagg gctactagcg agaggatgtc 420  
tgaacaactt atggctgctt tttttataca tattatt 457

<210> 32419

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A12

<400> 32419

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cgtaccattg cagacgcact cagcctacaa tacactccta ctcatTTTatt ccgtacacag 120  
caacgacgca taacgtataa tgcaagctcc atatcaccta cactggatac tcaataatga 180  
taagctgact gactctcttc tcctactatc tccatacaca caacatcttc ctaatgctat 240  
gaatgctgct aacattactg acaagcttga tctgcattcc ctgcgacagc ggcactgcta 300  
catgcagagc actcgtgcta catctgggtga agggttgtat tacgggcttg actggctttc 360  
cagcaacatc tacagctagt cttgaagctc ttctgcagga cttctagcga gaggatgtct 420  
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<210> 32420

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-A2

<400> 32420

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 gggaaggaaa gcaacaagag caacggggcc gcccgaaan aggagcaaag ccaaggcaca 120  
 cgaaaacgcg acgcacggag gaggccaaac gggcaaggaa aaaaaagcgc aacgccgaag 180  
 aaagacaaca caaggagagg gaaaaccacg gcggcaccca agagagagag cgggggacgc 240  
 gcaacaaaaa gcacaa 256

<210> 32421  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 32421

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 aaaggcaagg ggaacgnacg caaacaccan gancngaac aagcncnnga acggagaacc 120  
 nggaccaag accacgcagg ggccgaccgg ggagaag 157

<210> 32422  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-044-Q1-K1-A4

<400> 32422

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 ancgcgnccg ccccnncagg gaccggcagc gggggccaann cgccccacna ggaggggagc 180  
 aaacagcngc acagcngccc ggggaccgga acnccanngg ccacagcncc cagaggcgcn 240  
 ggnacccccg gnacgcaacc aaacaaanca gcngggcgac gaggaagcag gnggnaacag 300  
 accggacacg cc 312

<210> 32423  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G5

<400> 32423

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aaaggggaagg atttattaaa aatacatgat tactttttata ttaattttata attattttaat 120  
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taccttatatt tttttcctgt ataataatta ttaatttttc ttattatttt tctattatat 240  
atttattattt tttttttttt acaattttttt tattttttttt tttttttaat attattttttc 300  
tatttttttta ttattattttt cttttttttt tatttttttat ttttattttt tctttttttat 360  
tttttttattt tttttatttat ttttttctttt tttttttatt atttattttt ttttatttta 419

<210> 32424  
<211> 197  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-A5

<400> 32424

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ggacgcgcng gncacgcang agcnnggacn gcaggacanc aacaaggccg gcgaccggcn 120  
ccggcagggg aaaagacngc gcngcagccn cngganggac aaggacaagn aacggaagga 180  
gaggggcggc cggacca 197

<210> 32425  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A6

<400> 32425

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tcagatatag aagaagcgga agcaggaagc tgaaggatat ccgtagcgaa tgaggaatag 120
gacatgcatg tgagctagcg aaaaggggaat agcacattct ctaggggttcg tatcaagcgc 180
tagcaaatgg agaggggtcaa tcgaatccgt atcctcgagc gctgggtctg tcctctaattg 240
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cgccggttgt ccgcattcct ctctcgcagc gaaagggtgtt cccacgcaat cgctatcgct 360
gttcctacga cgtagtcaat acgcattgga ataatggcat cccc 404

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<210>      32426
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<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3068-043-Q1-K1-D9

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<400>      32426

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ggggcttagg aaccacaata tcaagacgtt tacctgcaag acgatcgtga aggaccttag 120
ctcgtaaat aagggtatgtt ccaaggacgc tgccaagact cccgacttga taaagtatgc 180
cgctgatacc tactacctgt tacagc 206

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<210>      32427
<211>      327
<212>      DNA
<213>      Zea mays

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<223>      Clone ID: LIB3068-043-Q1-K1-E11

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<400>      32427

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tgcgtgattg tcaacgggta gcatctcatg tcgagttgta tattgatcaa cgcgtagatt 180
attcgttcgt gcaaccctgg cggttaactt gtaatgtgta agtttcgagc acaatgatag 240
cgatctatgg ttgatgtgaa ggccattcag tctcgtgcta attgactatg atcgcacaaag 300
gactaattct agttcttgaa tgattga 327

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<210> 32428  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E3

<400> 32428

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tgagcctaga acatctttgc attttggaga gtctccactc ggagctattg tacagtctcc 240
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actggagcgc tgaaacgtct gactctgagt tcatcgaaga cggctgggag gaactcgtct 360
gggcgcacac                                     369
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<210> 32429  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-043-Q1-K1-E4

<400> 32429

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tctgtgaaat tgacttgagt gatgtagtgt cttctaactc actggctcca ttcttggatg 180
aaatcaagaa gcgtgagaaa caaagaaaac gagccgccaa gaaggaagaa agtgagagag 240
tgaaggcgga agttgctgct gctgttcagg catcagctat gcgatttgag tatacaaatt 300
cctctcaaag tcacaacgat gtcattgttct ctctggatga ctttgaagcc ctgngaaaca 360
ancgctggcc gtncaccagt ccaccagcga gtgaaaggaa gctttctctg atgtaacac 419
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<210> 32430  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E5

<400> 32430

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tctatacaca ggggttacgta tgggcaatat tgaaactgtc ctttcaatag tatcgctgct 180  
gttctttttg ctgctttcgt aattgccgga actattttgg atggaacagc aactacccta 240  
atcgaattat ttgggcctac tcgttatcaa tgggatcagg gatactttca gcaagtaata 300  
tatcgaagag ttaacgattg gttagccgca aatcttaatt tattagaaac ttggtctaaa 360

<210> 32431

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E6

<400> 32431

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tctatacaaa tgattacgca tggtcactat gtatgcttac ctgctcactg gcatcgctga 180  
tgtccttaga ccaaagacca aaaccgtctg caactattct agacgacaca ctaccatagc 240  
ctgatgaaca tcatttgagc aaccgctaga tcatagagat gctctgatac agacaccaag 300  
tattagatct actagacaag tcatgtatag tagtacatcg tagttaatga caaccttgat 360  
ctcaacttcc tataaaaaca atctgtcatg attatatgtg acat 404

<210> 32432

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E8

<400> 32432

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ttcaatacat aatattacgt tataaaactat t

151

<210> 32433

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E9

<400> 32433

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aggaatttt 69

<210> 32434

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F1

<400> 32434

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atgagcaggg gccggtggag gtggcgcgcg cggtgccgt ccgagatgga gtacatatcc 120

cctgagagaa aattggaggg gacttggtga gatcctgggc cgttattgcc gaccaagggtg 180

gcagcttggt ggaccacttg ggttatcaag ggggaggaat tccacaacat gagtcttcaa 240

cactggatca tggacttttg gttgatccag ctggtgcaat tccgtattta tctacagatt 300

ctacgccctt catgaatgat caaatcactt gcaatgttat aaaatctgct tcagctagtc 360

cagaatcttg taaaaaaca ccttaagaac ctcttaatgt agaatctgat gtacagaatg 420

acgcaactga acaaatggtt cacaatagta actttgaaag aaccaagggtg taatttt 477

<210> 32435

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F10

<400> 32435

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 ccgatgcgag gacaccaccc gagatcgccg ggatccggaa cgacttcgct gagatcggtg 180  
 ggaggttcag aagcgggata tcccggatct caggtcacaa ggccgtctct gggttctcta 240  
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<210> 32436  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
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 caccagcaac gagtcgctgg agaatgcctt cgccttctac ggcgagatcc tcgactccaa 180  
 ggtcatcacc gaccgggaga cggggaggtc tcgcggcttc ggcttcgtta ccttctcctt 240  
 cgagaactcc atgctcgacg ctatcgagaa catgaacggc aaggagctcg acggccgtaa 300  
 catcacggtt aaccaggccc agtcccgtgg cggtggtgtg ggctgctgtg gctacggcgg 360  
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<210> 32437  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-043-Q1-K1-F2

<400> 32437  
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 gacatgatcg cccccaacct cgcgaaacgag atcccatatg agaggcttac caattgattc 120



tgcgcgcctc gggcccgagg aggcgatggc acggtgctgg gcgacctgcc ggagaactgc 180  
 gtcgtggatg tgctgctcaa gctggacccg ctggagatct gctggatggc gcggtctcagc 240  
 cgcacgttcc acgacgccgc gtntctgggac ggtgtctggg agtccaagct gctgacgaac 300  
 tacgtgccgc ctctcgccgt cgc 323

<210> 32438  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F3

<400> 32438

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 gaaacttaaa ttaccattgc tgatggttta ttcgaaagac tcaaactcat atataaagta 180  
 aagtaatcca atttggattc ttgtgtttgt tataagaaaa ataaaa 226

<210> 32439  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F5

<400> 32439

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 tgtggggacg ccatggtgca tgctgagaaa gcatggtcag ctgctattag gcacggattc 180  
 gttcctttga cgaaagcctg aaagcctgta cgcaactcta gacgccattc gacgatggct 240  
 ggaaaactac gtttcagcaa tcggtagcac aaattctccc cagctacaga agccgactat 300  
 atggtctgct tgacgagtcg tccaggaggg cagggcgtga tgaatggcga ccttgattcc 360  
 aacagcatat agtaactata tatatagtta tgttgtggca ttgtatgatg caagtgcgag 420  
 aaactgcttt gtggctgtgt gggtagacata taaaatttt aaattt 466

<210> 32440

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-043-Q1-K1-F6  
  
 <400> 32440  
  
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 gaggggtgcgt tgcacggtcg gcagctgctt gtcgcgccac taccacatgt tcttcacctg 120  
 cgcggttac ttcacagct tgcgcaccaa gtacggctac ctgctctctg gcaccgcaca 180  
 ctggctcagg ctacagacca ccacgtactg cccaattgtg gactagactc taccaagcga 240  
 gaagtacttc accgccgaaa ccggccgaac tacacgtgct ctgctacaga cgcgccgtct 300  
 atgtacgcca caactagtca tgtagcatac tgcaaagcgg taacaaatga actgatacac 360  
 aagttggtat aaaaactata tgaacaagtg tgagggtg 397

<210> 32441  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-043-Q1-K1-F7  
  
 <400> 32441  
  
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 cagaaggggg ccttgcaaag tcgtcagctg cttgtcgcgc cactaccaca tgttcttcac 120  
 ctgcccggct tacttcatca gcttcctcac cagctatggc tacctgctct ctggcatcgc 180  
 acacggcctc aggttccaga ccaccacgta ctgcccgatt gtggactaca ctctagcgag 240  
 cgagaggtcc atcaccgccg aaaccgcccg acctccacgt gctctgctac agccgcgccg 300  
 tctatgtacg ccacaccttg tcatgtcgca tactgcatag cggtaactga tgaactgata 360  
 cacaagttgg aataaaaaga atatgaacaa gtgtgatgtg atatagtgat ggttaaccag 420  
 tgtatcactg tgattacata tat 443

<210> 32442  
 <211> 156  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F8

<400> 32442

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gttgggactc aggagaaatc gggggatgct tgtcgctctg ctacgacata ccgtgcacca 120  
gcgtgggtac ctcatgagc ttgctcacca agtatg 156

<210> 32443

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F9

<400> 32443

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aaaaaaaaa ggaagatttt aaaaaaaaaa aaagacaaaa aaaaaaaaaa aaaaataaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatg cctaccatat ctaaataatc 180  
caaacttact tacccttctt ttcaaacttc atacctctcc aataatttcc cctaaatcca 240  
atttattcac ctccatttaa caccaatcta acttttaaaa ccttaccttt acctaattta 300  
atacatctcc acaaaatccc cttttcccca acttttttta aaccaaaa 348

<210> 32444

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D7

<400> 32444

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gagttcgatg gagatccagg tatctggcta atcaactact cttagagagg tcaatctaga 180  
actgaactag gaagaaattg ctgacatgct cagaagactg gacacactat atatatatag 240  
catctacctt gagcatagca acctcacgct caagaattgc gacgtatgac tcatgttgat 300  
acaggaaatt ccttgcaatc tgtgagaact gcaagcaa at gctattgcc aatatataaa 360

tgcaactataa tgtgtattat aatcattttt ttcgaaactt atttgtgcaa 410

<210> 32445  
<211> 252  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G11

<400> 32445

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tgaccgtcca gactcatagc tccacctaaa actctcagca accataagac cattaattga 120  
atacagggac tacactgact gatgagctcg ttgtgtccag agatcattcc ttaagaacta 180  
taacatagcg atatcctatg ataccaagga ttacacatgc acgtaacgag acaaaagcga 240  
tcatgcgga aa 252

<210> 32446  
<211> 456  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-043-Q1-K1-B2

<400> 32446

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aggcagtcaa ggtgatgcac actgtggcac tcagaacaga atccagcctt tataacccaa 120  
ctacttctcc tagtcttggt gcatctgcac agggctctaca gaatgaggac ttctccgcaa 180  
gccagctaag taaaatgttc ggatctcatg caacgatgat ggccaacacc cttcgcacac 240  
caatcattgt atttacacag acaggctcca tggctgtcct cctgagccac tatcgtcctt 300  
cgtctacact atttgcattht acaaacgagg aacgagtga gcaacggcta gcaactctacc 360  
aaggcgtcat ccctattcac atgcagttct ctgacgacgc agaagaaact ttcttcagag 420  
caattagcag cttgctgaaa gcacaatatg tgaaga 456

<210> 32447  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B5

<400> 32447

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gttggtatct tataaagcgg gaatgacccg tttatcgaaa tcgtggagaa catggaatac 120  
ccctgaattg acctttgtgt caccaattgc tgttgttggg ggacagaaga tctccctcat 180  
tcttaaaggc cgcaatctat ctattcctgg cacacagatc cattgtacaa gtacaggaaa 240  
gtacatatcc aaagaagttc tgtgctcagc atatccaggt accatatatg atgattcagg 300  
tgtggagact ttgacttgc caggacaacc agattttatt cttgggcgct gctttattga 360  
ggtggaaaac aggttcaggg gtaacagctt ccctgttatt gttgcaagtt caagtgtttg 420  
ccaggagttag agaagtctag aagtgg 446

<210> 32448

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B7

<400> 32448

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cgggggttcgg tttcgtgggt gagcggatcg agatggcggc gtcggatgtt gagtaccgct 120  
gcttcgtcgg cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca 180  
cctacggcga ggtcctcgag tccaagatca tctcgcgacg ggagacgcag aggtcccgcg 240  
gcttcggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 300  
acggcaagga gctggacggc cgcaacatca ccgtcaacga ggcccagtcg cgcggcggcc 360  
gtggaggcgg cggcggcggc gggtagcgtg gtggccgtgg aggcggcggc tacggcggtg 420  
gcgggcgcgg tgatggcggc ggcggctacg gccgggg 457

<210> 32449

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B8

<400> 32449

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cggtgtatca tttcaagggg gagcggatcg agatggcaac gtctgatgta gattaccgat 120

gcttcatcag cggactctcc tgggccacgg acgaccactc cctccacaac tcttcagca 180

cctacggcga ggtcctcgag tccaagatca tactcaatcg cgagacgcat aggtaccaca 240

gcttatgcta cgtcaccttc tccactgagg aggcgatgct gaacgccatc aaggcatga 300

actgcaaaga gctggacggc cgtaacatca cgtcaacta ggccc 345

<210> 32450

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C1

<400> 32450

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gtacgagcac acgtggcctt tcctaccgtt gccacaagc aacagagcca agaaatcagt 120

cgcgctagag cgagcaagga cgatgctggg atgcttctcg cggctgctgc tgccgacgac 180

agctgcgccg gagcccatgc cggcggcgtc cgacgacgcg ttcacgtcga cggcctcggc 240

ggcgggctcc acctcgctgt gctcgtggtc gtctcggcg cgctgcaagg acgactagga 300

ccactgcagc tgcacggagg tcaaggaccc g 331

<210> 32451

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C10

<400> 32451

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gagcctctag ccttagctag tagctagcca ctccggtcgtg tagtcatcag ccttctgac 120

gtcaccatg gccactgccg aggtccagac cccgaccgtc gtggcgaccg aggaagcgcc 180

ggtggtggag acccggctc cggccgcgt cgtgcccag gaggtgccc ccgtcgccga 240

ggccaaggtg gaggagccag ctgccccggc ggagaccgag ccagctgccg ccgctgagcc 300  
cgaggcggcc cccgtggcgg cggatgaaga gacgccaaag gaggaagaga cggc 354

<210> 32452  
<211> 460  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-043-Q1-K1-C2

<400> 32452

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cccaacttgg agggcttcaa accttaatat ccaacaatct ataataactt gtggctagct 120  
gaaaatggca tgaagatgca cggttataat ggcagccaac tttgggatac agctttcaca 180  
gttcaagcca ttgtggctac caaccttatt gaagagtttg gtcctaccct taaactagca 240  
cacaactata tcaagaattc acaggttctt gatgactgcc ctggtgatct gaatgactgg 300  
taccgccaca catctaaagg tgcattggcca ttctcaactg ctgatcatgg ttggcctata 360  
tctgattgca ctgcttaaag actaaaggcc tcattattgt tatcaaagat ctcttccaaa 420  
atgtgtggtg aaccattga agcctataga ttttatgatg 460

<210> 32453  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C3

<400> 32453

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catatcaaat ccagggtggc tgatactcct aaccttacct gtcaaatact atccactggc 120  
attgcttcca caagatcctg attgctacat gtttagctta tccatagagc ctacacacct 180  
tagcctcttt ccatgtcatg cttcatgtaa gtgaccttga acattctatc aatttttatg 240  
ataatgccct a 251

<210> 32454

<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C6

<400> 32454

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cagcgggtgtg gtgcttgacg tcgccggaga agcacttcgc ggaggtgacg cggaggtcca 120  
tcgtcgggct cggtagggac gaggaatccc tgacgagggg gatcgtttcg cgcgccgaga 180  
tcgacatgaa gaaggtgaag gaggagtaca aggtcaggta ccgcacgacg gttaccagcg 240  
acgtcaacgg cgacacttcc ggatactaca attccatctt gctcactcta gtcggccctg 300  
agtgaatgag catggccacg agtgatcctt gttgggtcaa gttgagaccg tagtgcaagc 360  
tcatcaaaga aggaggtgtg gccaatttga catctacaac tatagaaggc actaaagctt 420  
taacttttct agtcattggt gattgtacca aaaa 454

<210> 32455  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C8

<400> 32455

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gagcgtggat attctagcta gctacgggca tatattttgc tgtgtatata tgtatgtgta 120  
tcgacgggtct catcacctac ctcta 145

<210> 32456  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C9

<400> 32456

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gtccttaaca ggttcttgag cctaaactcc agatgttgct gaagcacaag ctacagctgc 120



tgatgaggaa gacaattatg atgttgacct ccatgttcag gagactcaac atgagcacia 180  
agctgctgaa gatcgactg caacgtccaa tgcttctatc acgataacag aatctttaat 240  
gtcatgagat ttacttgatg tgaatccata tgac 274

<210> 32457  
<211> 204  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D1

<400> 32457

aaaaaaaaa cgcatacaca tacacaaaaa catttacatt tatatataaa tttaaaacat 60  
caaacgggaa gggctaaaca aaagtgcgag taagaaaaaa aaaggggcgg ccactttata 120  
gagacaaaat ttaccacctc ttttaattata tcccatatct ctactgtggt gttacctaata 180  
ttaaattaac tgaccttgat ctaa 204

<210> 32458  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D11

<400> 32458

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atggccgaca ccggcaaccc gccgaccaag cccaccaaag cctccgcccc cttcgctcgta 120  
attgacgccg tcagcgccaa caaggcccg cgcggtggcg ccgatgcccc gacaccgtcg 180  
gcggggcacg gccgccgctg gctgcagcgg gcgtgctgcg gcgtagccat cgcgggcgcg 240  
ctggccgcg ctgcggtgct gtcgctgtcg ctcaccgtgc tcagggtgcg ggacccgacg 300  
ctgtccatgg agtccgtggc cgtcaggcgc ttcagcgtgc gcctggacgc cgcgttcccc 360  
gcgcgcccgc tgcggatcaa cgtcacgc 388

<210> 32459  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D12

<400> 32459

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aaagtcgatt tctcgttcaa gctatacgat atggatggca cagggtttat tgaacgaaag 180  
gaggttaagc agatgttaat tgctctccta ggagaatcag aaatgaggct atctgatgag 240  
atcattgaga caatcctgga taagacattt tcagatgctg atgcaaatac agatggaaaa 300  
atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat gaagataatg 360  
actctgccat acctcaagga cattacaaca acattcccta gctttgtgtt taac 414

<210> 32460

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D3

<400> 32460

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aaacttaact gacaaatctt atacgtcaac tgaactatat gatgatctct gccatcctcc 120  
ccaacgttac cctgctattg ctctaaacgt tatacctctc ctccatt 167

<210> 32461

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B12

<400> 32461

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gtagataaca acaagcgtga accatggcgg acgagtacgg ccgcagcggc tacggcaggt 120  
ccggcgccgg cgacgactac gacagcgggt acaacagcaa gtccggcact gatgactacg 180  
gccgtggcga aagtggctac aacaagtcgg gcggcgatga cgactacggc cgcagcggcg 240  
gcgatgggta cggcaggtcc ggcggcgacg actacggccg tggcaccggc ggcggtggct 300

acaacaagtc cggcggcgga aacgactacg gccgcaacgg cggcgacgac tacggtcgtg 360  
gcaccggctg ccgcggttac aacaagtccg gaaacgacgg ctacgacagc ggggtacaaca 420  
gatcgggcac caccaacgac 440

<210> 32462  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-043-Q1-K1-D5

<400> 32462

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taggaacgga gcaaaggtcc ggcgagccag agcaatagtt aacaaccatc tccacaaaca 120  
ggctaccacg tagctacgta tatgccggaa ctgaactgag ctgagaaagc tcaggcgtga 180  
actgaactag atggtgtttc ctgccatcct cccaaggtg gccgtgcat tgctcttcac 240  
gttctaccgc gccgccagga agctcaggcg ccacgccttc cagctctaca accgtaggac 300  
cgccgccaag ccgccttcgt tctccgtctc ccagcagcag gccggtgccg ccaccttcaa 360  
gaccgacgcc gccatccctg acgccgtcgg ccggaccgtc gtctgtgacg tgcacggagc 420  
cctgctgcgc tcctncgcgc tcttccccta ctt 453

<210> 32463  
<211> 116  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D6

<400> 32463

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taggggtcgt ttaaaggctc taagatgcat atcactcctc tacaacattc tctaca 116

<210> 32464  
<211> 215  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G3

<400> 32464

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gttgggcttg tgccaagctt gaattctctt gtgaaagagt ttctcaatgc tgctgatgac 180

aagtggaagg aagtcctctc ttaaattgaa gaaga 215

<210> 32465

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G7

<400> 32465

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caaggccatc gacatcaacc cggggcagct caagtgtctg accaactgca acttctcctt 180

ctcggggctc tacacctgcg acgacgtcaa aaaggactgc gaccccgctc gcaagaagtg 240

cgtcgtcgcc gtgcacgcct tctactcggg caacaacaag ttcaggtgca ccgacacctt 300

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<210> 32466

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G9

<400> 32466

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gatgggcagt ttgcgtggcc gttgatcttc tagacatgaa cagggtagct cgctgaccgc 120

gtttctcaa gcagagtagg ctgcgtttac ctagaaaacc tagttttggc tggttacttg 180

catgatggtc gaccgtttca gatggagttt gacagcaaac ccgttgtgtt aaccatgcgt 240

ggcgtatcag ccgatgtttc atgcatgcta ctgtcttttt ctttggttgg tttcgtacca 300

tagatagacg tgtgtagcga ccatcgatgg aaaaaaacct tgcacatctg gaacggcatg 360  
catctcagtt attagcccct gctgttgac atgcaaaaa 399

<210> 32467  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H10

<400> 32467

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tctgaataat tgcggagagc ctgtccatag gcaggtcatt gataatggcc ttcttccaat 120  
acttgtgaag atagtgaaga aaaagacgga tttaccagtt cgagaaaaaa tatttcttct 180  
gttagatgca acacaaacat cccttggtgg agctaaagca aggttccttc agtactatga 240  
ggcatactat gagttggtgt ctgctggtgt gcaattttca aatcggccaa atgttcttgt 300  
cacacgagca gaagtgccag tcccagaaac gagaacagaa ccaaataatg aaagtttatc 360  
gacccgtttg actgaagctc aacaagaagt gcacactcag cctgttctg atgcaagtat 420  
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<210> 32468  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H12

<400> 32468

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aagcgtcggc gactccttca gcgccacctc catcaaggcc tacgtggccg agttcatcgc 180  
caccctctc ttcgtcttcg ccggcgtcgg ttccgccatc gcctacgggc aactgacgaa 240  
tggcggcgcg ctggaccggg tgggcctggt ggcgatcgcg atcgcgcacg cgctggcgct 300  
gttcgtgggc gtgtccgtcg cggcgaacat ctccggcggc cacctgaacc cggccgtgac 360  
gttcgggctg gccgtggcg ggcacatcac catcctgacg ggcgtcttc 409

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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-042-Q1-K1-H3  
  
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 ctctattttta gtcaaaaaaa aataaaaaaa aaaataataa ata 163

<210> 32470  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-042-Q1-K1-H4  
  
 <400> 32470  
  
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 ccggtggctc cgggtcgtcgc ccagcacgcc ggctaacca gccgacggag gaattcagga 120  
 atgtggtgtt tggggggcag ctcacggagg gggccgacgg cctcaacaag acgaagagga 180  
 agacgggctc ctgccccaa ggaaggaga caacaggac cgggatatcc aaggccgaga 240  
 gcgccttcga cgtcgtcgc actgcctacc gtgatcgtca ggctagccag atcacctttt 300  
 cccaggacgg gaccgttctt accaggaagg caacttcagt ggctgggggtg gcaaggcagc 360  
 gtgagcttag ccataccgtc cagagtgagg gggacag 397

<210> 32471  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-042-Q1-K1-H5  
  
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tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac tgcgaggtcc 180  
 tcgagtccaa gatcctcctc gatcgggaga cgcagaggtc ccgcggttc tgccttcgtca 240  
 ccttcttcac ggatgaggcg atgcggaacg c 271

<210> 32472  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-042-Q1-K1-H6  
 <400> 32472

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 gtcctacct cttcgccac ttcagcatgc acatgaagct cgtcggctgc gactccgcgg 360  
 gcaccgtcac ggccttctac ctgtcgtcgc agaactcgga gcacgacgag atcg 414

<210> 32473  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-042-Q1-K1-H7  
 <400> 32473

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<210> 32474  
 <211> 233  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-043-Q1-K1-A11  
 <400> 32474

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aagaaaattt aaaaaaaaaa aaaaaaaaaa acaaataaaa aaaaaaaaaa aaaaaaaaaa 120  
atatctcttt tttttcaaat tctcatctct tacttcttct ttttaatttt ttattcttct 180  
cttttctacc ctcatctcaa ttcctttttc tttcttaaac tatttcttct cct 233

<210> 32475  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A12

<400> 32475

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accagcacg acgagacagt caccaacgac gagattgctg ctgacctgaa ggagcacgtc 180  
atcaagccag tcatccccga gcagtacctc gacgagaaga caatcttcca cctcaacccg 240  
tctggccgct tcgtcatcgg cggacctcac ggcgacgccg gcctcactgg ccggaagatc 300  
atcatcgaca cctacggtgg ctggggagcc cacggcgggg gcgccttctt cggcaaggac 360  
ccgaccaaag ttgaccgcaa cggggccta 389

<210> 32476  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A3

<400> 32476

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gcaccgacag ctgctgaaaa gatccatggt ttctactgat ggtagcagat acatgtgtag 180  
attgattgat acatcatcgg acggatggaa gaattgatac cacacaaact gctatatata 240  
tatgtactgt gagtaaacag ttaaaattaa acttgtgaga tataccgtac atatgaagag 300  
ctagctagta gtgagtgata cagtgggtaa gtgaatcata tatagtcgta gaaacaatca 360



catgaattgc tattacgcac catatatatg cacttaatta tattggttga ggagacctaa 420  
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<210> 32477  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A6

<400> 32477

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 tggcacgccc cggccgaggc gccggcgccc agccccgtct acgccgccgt cgcggcgctcg 180  
 tcgcccttcg ccgcggccct cgtcgtctac ggccgcgcct tcctattcgc cgcggtccgc 240  
 cactgagcct atggggcctc gtgcctgcag gctacctagc agtacttacg ccgctgctgc 300  
 cggcgccgcc tagatctatg tattggagtg ctatgcagta gtactagtag tagtgagtat 360  
 tcttcggtgc tgtcgtgtcg aattcgcatt ttggtcggat ccggttttct tgggtgcatgg 420  
 aggg 424

<210> 32478  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A7

<400> 32478

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 aaaagtacac gaacactgag cttgctgtta caggcttaca gttacagcgt tcagtaacca 180  
 gcaggtggag accgttttagc cagaaacccc ttgtagtgct ccaacagcct tccggcgctc 240  
 ggcacacct ccttcacggc gtccaccgcc aagaagcgt ccgcccacgc cgtcaaggcc 300  
 gggaacttgg cctcgtccag aagctttacg ccggccgcct cgtccaccac cctgatccac 360  
 accacgaagc tcccgagcgc gatgtccacg agcccgaagg cgtcggccgc gaagaaggg 420

JC675 U.S. PTO  
 09/394745



ttccctttgg agcactccct gaacgcctgc tc

452

<210> 32479  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G2

<400> 32479

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cgggtggtgga gaccccggt cgcgccgcg tcgtgccga ggaggctgcc cccgccgccg 120  
aggccaaggt ggaggagcca gctgccccg cgagaccga gccagctgcc gccgctgagc 180  
ccgaggcggc ccccggtggc gcgagggaag agacgcaaaa ggaggaagag acggcaaagg 240  
aggcggagcc ggagccggag cggcgggcg ctgaagaggt gaaggaggaa gcggcagcgc 300  
ccgctgccga gacagaagca gaaccggcag ccgctgagcc cgaggctgct gctgctgctg 360  
aggagcccgc ggcggtgag cggcgcgctg aggagcccga gaaggccga 409

<210> 32480  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A9

<400> 32480

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agaaggacga ggagcatgcc gcggccggcg ggtacggcga gtccgcctag tacacggagg 180  
ccacggtgac agatgtcgtg tccacgggcg agaacgagta ctactagtac aagaaggagg 240  
agaagcagca caagcacaag cagcacctct gcgaggcccg cgccatcgac agcggcgccct 300  
tcgcactcta cgagaagca 319

<210> 32481  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B11

<400> 32481

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agatgggtat gaaggtcttg gggctgtttc agctgggtgtg cttatcttct ggggaatagc 120  
ctttggtctt gcactataat ccagggttgt acatgtcacc tgctcagctt ttgcacggcg 180  
tatttagacc ttgctcgaca aaacttgatc cttgcatttc tcaaggataa ccttataaaa 240  
cagacagtgc tgaaaatggc actgttcttc accaagtact ttaatggata cacttaacat 300  
ctgttccacc aaatcaatga ctacaacttc cacagaacac cct 343

<210> 32482

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D6

<400> 32482

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ttgacgagca ttatcaatca ccctgctgag attgtgaata tgcttgccaa gagcctgcct 120  
ggaagcgcaa cgttcttctt cacgtttgtt gcgctgaagt tcttggttgg ctatggcctt 180  
gagctctctc gcctgggttc tctcatcatt ttccacctga aaaggaagta cctatgcaag 240  
acggaggaag aagtgagagc ggcattgggt ccagtggatc tgggatataa caccagggtg 300  
ccaaatgaca tgctcatcgc aacagttgtt ctgtgctact cagtcattgc gcctttgatt 360  
attccgttcg gtgtcgcata ctttgccttc ggatggctta tagcaagaaa tcagatcctg 420  
agagtttacg ttcctagcta cgagagctac ggacgaatgt ggccacacat gcacacgagg 480  
atcatcg 487

<210> 32483

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D7

<400> 32483

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ctcgcgcac acacacctag cgctcgacgg aatgattgag tttgaatcat catcgtttct 120  
gttatttgggt ttagtatgggt acgttaatta atcacgtgag ttggagggca agagttggat 180  
taatctcaag gtgaggctga cgattgaaca tgaagatttg atgatctgggt caaataccag 240  
gaggagagat actcaccaag tggatcatcat ttaacaacac tatacgtagt gttaatccaa 300  
ggtgtaagtt ttgttctggt gtggatgggt ctaagtgcg gtgggctcgg ctttcttata 360  
taagtatatc ccatcttttag cttctt 386

<210> 32484

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E10

<400> 32484

tgaaaaata aataaaatcc aacacacact cacactggcg actctggaca gc 52

<210> 32485

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E4

<400> 32485

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gcggggacag cgcggcggcg gcgacggaga acccgccg cgagggcgggtg ctggcggagg 120  
acacagcccc tccaccgtgt tcgtttccaa cctcccctac accttcaagt cctccgatct 180  
cgaggcgggtg tttagcgagg tcggcccagt gcggcgctgc tttatggctc cgagagaaagg 240  
gtcggagaag agtcgaggct tcgggttcgt gcaatttgca actgttcaag atgctgatcg 300  
agctcttcaa caaaagaatg gatctcctgt tgctggtagg aaaatcagag ttaagctagc 360  
aatgaatcgt gtcactga aggaacgttt gcaaaagggtg aacatgcaag tgaaggactc 420  
tgatg 425

<210> 32486  
<211> 399  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-042-Q1-K1-E5

<400> 32486

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tgcggtttca cttgctgtgt gcaaagctgg agctatggtg aagaagattc ctctttacca 180  
gcacatcgca aatcttgctg ggaacaaaac tctggtgctc cctgtacctg cctttaatgt 240  
gattaatgga gggtcacatg ctggaaacaa gcttgccatg catgagttca tgatcctncc 300  
aactggtgcc tctcgtttca aggaggccat gaagatggga gttgaggtgt accacaacct 360  
gaagagcata atcaagaaga agtacggtca ggatgcgac 399

<210> 32487  
<211> 482  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E6

<400> 32487

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cctactccga caaccagccg ggggtgctga tccaggtgta cgaggagag cgcgccagga 180  
ccaaggacaa caacctcctt ggcaagttcg agctgtccgg catcccgccg gcgcctcgcg 240  
gcgtgccccca gatcaccgtg tgcttcgaca tcgacgccaa cggcattctg aacgtatcag 300  
cggaggacaa gactacagga cagaagaaca agatcaccat caccaacgac aaggggcggc 360  
tgagcaagga ggagatcgag aagatggtgc atgacgctga gaagtacaaa gctgatgacg 420  
aggagcatag gaagaaggtg gacgccaag actcgctgga gaactacgcc tacaacatgc 480  
gc 482

<210> 32488

<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E8

<400> 32488

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cctggccgtg tacaggaact acacgtacga cgagtactac gccaaagtctt ggagcaggaa 180  
cctggaccag gagcactgcc tcgagctctt cagaacctag cgaatcggat acggatggat 240  
ggatacatta catacgcgcc ctctgttttt ctccatgacg ttagaagaac acgttctgca 300  
atgtttgtcc attcaagggt gtatcaatca aggtgtgtgt cgttgcaatt cttccgatcc 360  
atatacatga ttaaattgctt tgaaagaaaa agaacaatag aaacacatgt attatggcac 420  
tactagtgtt tttaggaaca aggaagagg gggtgcccc tgctggc 467

<210> 32489  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E9

<400> 32489

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ggtcaacagt tcggccaccg cgctcgtgct gtccacgggc gggttcaccg gcaaccggtt 180  
ccacgactac acggacgtgc tcatcccgcc cttcatcacg gcgcaccgc tccgcggcga 240  
ggtccagttc ctggtgagca gctacaagtc gtggtggatg aaccgctaca tccagatctt 300  
ccagcagatg agccggcacg aggtggtgga catcgacgcg gacgacgagg tccggtgcta 360  
ccgcagcgtg gtggtggggg c 381

<210> 32490  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F10

<400> 32490

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aaaaaaaaaga aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaatta taaaaaaaaa 180  
aaaattaata aaaataaaaa actaaataaa atataaaaaa atattaatta aataaaataa 240  
taactaataa aaa 253

<210> 32491

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F11

<400> 32491

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ctctccttct ctcttgctct cctcttttct tacctctttc tttcttgta ccttactttc 180  
atttaattct ccttcatttt acaacatttt tcctttgtta aactcctttc ttacccaaat 240  
aaccctcctt tcaccctttt taacttactt cctcttcctc catctctatt aattccctc 299

<210> 32492

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F2

<400> 32492

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cggcggagct ggtggcggcg ggcagccgga cgccgtcgcc caagacgaag gcgtcgcagc 180  
tggtggggcg cttcctggcc gcgtccgagc cgccgtgtc cgtgcagctc ggcgaccacg 240  
gtcacctcgc ctactccac accaaccagg cgcttctccg cccaggtcg ttcgcgccca 300

atgacgaggt gttctgcctg ttcgaggggg tgctggacaa cctgtgtcgt ctgagccagc 360  
agcacgggct gtcaagcaag ggcgcc 386

<210> 32493  
<211> 229  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-042-Q1-K1-F4

<400> 32493

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atatttcaag tcccaggcaa ntttcaataa nttatctggt ctctagacac cagaataata 180  
atagacattt attcctcata ttatacacat ataagttcaa attctcaat 229

<210> 32494  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F5

<400> 32494

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gttagaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atacaaaaaa aaaaaataata 180  
aataaaacaa aacttaaata aaaaaacaag taagttaat 219

<210> 32495  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F6

<400> 32495

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ccgggtacta ttcttgcttc acgtgacttg tggattgttg agtatgttca gggtgttgag 120



ggcaatgttg gagaaactat ggctctagct acccaatcac tattagtttt tccgttgctt 180  
tccgaccgaa cgattctaata tcacagtctg gtcttcctat ggattctgtg aatgacgggtg 240  
atcaaagtaa tggccactat ggacatgcca atcagggatt gtctcagggg cttgggtgcat 300  
ttgggggttg gagatcttgc ccattcctga gggatgggcg taattcatcc ttgggacgcg 360  
catctagaga ccgttcaggg acttgccagc caccagttac caaccagggg acagcttgcc 420  
agatatcgtg catcgttgac act 443

<210> 32496  
<211> 231  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-042-Q1-K1-F7

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tggatcaatg gaagggttgt gtcctagcca gccggcaaag atgagctgct gatggtaatg 180  
atgatgacta gaggccactg ctaccctact acgtaccctc ctctttgtgt g 231

<210> 32497  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G1

<400> 32497  
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gggggtatct gccttgggcg gtgaccctg tctgtctcgc catggctaca tgcccctcat 120  
caaactagcc aactacagct ccttctacaa catcgttcac aacttatcca tga 173

<210> 32498  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D2

<400> 32498

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ttatgatatg atttatgac tgaaccacat taaacacctt tctatttaac gcagcctgat 180  
ggccaagtgc ctggagataa gaccgcggga catcacgatg atgccttcag caccttcttc 240  
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gtgatcgatg aggtgcgcac tggcacgtac cgtcagctct ttcaccctga gcagctcatc 360  
agtggcaagg aggatgccgc taacaatttc gccctggcc actacacaat ttggcaggag 420  
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<210> 32499

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-A8

<400> 32499

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taagtacttc agacctgaga ttaaaacagt atctggagaa gccttgcgta catttgtgta 180  
tcatgaaatt ctgataggat atcttgaata ctgtaaactg cggggattca caagttgtta 240  
catatgggct tgtccacctt tgaagggtga agattacatc ttatattgcc atcctgagat 300  
tcaaaagact ccgaaatctg ataaactgcg tgagtgggtat ctatctatgc ttcggaaagc 360  
ttctaaggag gaaattgttg ttgagctcac aaatctatat gaccatttct tccttactat 420  
gggggaatgc aaggctaang tgactgcttc tcgcttgcca tatttcgatg 470

<210> 32500

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B3

<400> 32500

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ttcagcaaaa gaagagaagt caaaaacacg caaacaagga aaatgagttg gtggtggaat 180

gaatagactt cgtgagagat actgagatat tcctgtcact aatggatgcc aagagattgg 240

cgatgcttgt attctttgag aagaggtcat gttgacgcgt ttggacatgg tttctggaaa 300

catccttgaa aggctgttgt ttgcttcggt tgatgacaat gggaaacctt 350

<210> 32501

<211> 427

<212> DNA

<213> Zea mays

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<400> 32501

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agagagcagg gagagaccag agcaaacaac aaccaccgct tgtttcatca agaatcgtgg 120

aggagaaccg aaagttgagc tttttccggc agggcatctg ctagagccgg ccggttgaag 180

caggggagcg agaggaggag ggcagccgaa caggagcatc gcagtgggtg ttaagcagca 240

gcaacgacga cgacgacgac gctgagaggt ttccccgttc ccgacggcac gtccaccgag 300

gcggcgccat cgcgatgggt cctctggcgc cgctgaggtg taaccgcgcg tcgtcgttct 360

ccaagtcgcc ggggtccctg ctgctgctgt ccaagtcgct caccctctac tgctgaaccg 420

agcccc 427

<210> 32502

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-B5

<400> 32502

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gacggatggc gagggcgcg ctcctctctc tcctcctcct cctcgtggcg ttcctcgccg 120  
gcacaggctc cacggcgggc cgacacgccg cgcccgacc cgcgcccgcg ccccgggcgt 180  
cgccgtccat ctccgcgggc cccgagtacg gggcgccgct cccgcgcctt ccgaaccagc 240  
accagcaccg gcaccccttc gcgctggcg cgctgcaggc gctggcgccg gacataatgc 300  
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cctgctgctg gctgtgccgt ggc 383

<210> 32503  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B6

<400> 32503

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gaccaccgtc gccaggttcc ggcgccgcac ggcgacgtgc agggccagca gcggcggtgg 180  
cgggtggccgg gggggcgaaa atgatggcct cctttggctg ccccgggcggg acgtgatgct 240  
caacggcctg tccagtgtcg ccgccgggct cgccctggtag ccgggcgtcg cgtccggcgc 300  
ggatgcggtg tgcaccaggg ccgacaaggt gaacgagaag accgtgcagt gcacggaccc 360

<210> 32504  
<211> 495  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-042-Q1-K1-B8

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aatatgccaa tttcatcggg atggtattga cgcagctcag gttgttccag cctggccttag 180  
ctgcttgcc ataaaagacg acaagggtga agctaaagtt gtacatggac agctttgctc 240  
catggtggag aggtcggatg ctgaaattct tggctctcac agtcagtatc ttcctaaaat 300

tgtttcaatt tttgcagagg ttttgtgcaa tggaacagaa cttgccactg atgaaactag 360  
aaacaggatg gtgaatgtct tgaggcggtt ccagcagact ttgcctnctg attntcttgc 420  
atcgacgttt tccaacttgc aaccgcagca acagctactg ctacagtcca tcttgtcgac 480  
atagttgttt tttct 495

<210> 32505  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B9

<400> 32505

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gggcctggct ctacctgggc aaaacgccat taccaacgtg taggcggtaa gggagtagtg 180  
gtcgccgcca tcgggtgctt acacgaccgc ttgcagtcgc ggtggaggtt tgggagcttc 240  
gcgagcgcca taggaaagca tatcaaccct caatttggca aggaacgtcg tggctctggtg 300  
gggattcttc accggaattg ggtggcagcg cggagctttc ccaccccgcg gaccagtctg 360  
ggcaccgccg caaccgcgac gagcaagtga ccgatgaccc aggtgttcag catgagaaaa 420  
ttgctaggca tgagctcggt g 441

<210> 32506  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C1

<400> 32506

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tgagggtcgc caagcagctt agtctgggct tctgccttcc acatggatcc cctgcggagg 180  
tcctcgcggt ccgataccgg aatttcaatg cccttggcta tgacgacaaa atattggatg 240  
gattttatga tctgttttat gttggaaatg ggccagcagc agttactatg ccctcttttg 300

ctgagctacg agtccggcca ttttcacata aagtcgattg ggaagctgtg ttggccaca 360  
gaggtgaaga ccctgagcct atgaaacttc agcaggaggc cttaatcatg aatcatgaac 420  
ttcattcgag aacttcagaa tctgt 445

<210> 32507  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-042-Q1-K1-C10  
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tcaaccacca caagaaggac gaggagcagc ccgtcggcga gtacgggtac tccgagaccg 180  
aggtgggtcac cgccaccggc gaggggcagt acgagaggta caagaaggag gagaaggagc 240  
acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgtcggcgcc ttcgcactct 300  
acgagaagca cgaggcgaag aaggaccccg agcacgcgca caggcacaag atcacggagg 360  
aggtcgctgc cgcggcgccg gtcggcgccg gcggctacgt attccacgag caccacgaga 420  
agaagaagga ccacaagga 439

<210> 32508  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-042-Q1-K1-C11  
<400> 32508

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ggttgacgcc ataaactctc tctctctctc tctctctctc gccttaaata aatgaacggc 180  
cgaattggaa cctactagca ataagtttcg tcagcgccgc gcgcgcacat gtgcagggtg 240  
ccgtgcgagt acaagcacag gaacctgtcg gtgagggtgc aggagaagag gcgctccccg 300  
ggggggccctg gcgacctcgc catcaggttt ctctaccatg gcggccagac cgacatcgctc 360

gccgtcgacg tcgcgcatgt cgggagtcgg gttattgctg atacaacgga gctttcttg 419

<210> 32509  
<211> 208  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C5

<400> 32509

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agtataacaa ggtatgctgg ctgcgtcgaa atatattaca tacactgcag ccatgatttg 180  
cgtgttgat agtaatgcat cttaagct 208

<210> 32510  
<211> 196  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C7

<400> 32510

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aaaaaaaacaa aaaataaaac aaaaattaat ctacaataaa ctaaataaaa tataaatcaa 180  
tatacaaaaa aatcaa 196

<210> 32511  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C9

<400> 32511

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gaggcagagg cttgccagcc tacctagctc gtcggggccc tatggagatc cagcaccacc 180

gggggctggg caactccaag gttgtcaagg tgcagagcga ggaggcgtgg gatctgttca 240  
 ccgatcaagc gagcaacgag ggccggcccg ttgttgccca ttccggggcg tcatggtgcg 300  
 tgacgtccct gtccatgaac tacaagtttg aggagctggc gcagaccac cccgaggtct 360  
 tgttcctcta cgtggacgtc gacgatgtcc atagtgtttc atccaggtac ggagtgaagg 420  
 ccatgccgac gttcttcctc atcaagagca a 451

<210> 32512  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D1

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 aatacaaggt taatttgaaa taaattaaaa ggaattaaaa attacataaa attacataaa 120  
 ttaaaattaa cttaaccata ttttaaaaca tcttaaattc tcaaaaccct atcctttccc 180  
 aacctaatta ccttttaaacc cattatcctt ttaccaactt acttaataac caataatccc 240  
 tcaaaaaatc caatttttaa aaatttttca accttaattt ataattttta tcctcctt 298

<210> 32513  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D10

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 aggctccaat tttaacatat cctgccttct acctcatagc tccaatatta tatcccttaa 180  
 tattaatccc ctaacactaa ttttacaacc tccttactac aaaaacctta ccgttaaaaa 240  
 acttaatctc cttaaataaa atcccttttt tcccatcttg ctttataccg atgaggtcct 300  
 aaccaatagc ctttccca 318



<210> 32514  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 32514

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acattgcagg gttcatcatg acaggggctt ttgctcatgg agctatTTTT ttcattaggg 120
attacaatcc ggaacagaat gaagataatg tattggcaag aatgttagac cataaggaag 180
ctatcatatc tcatttaagt tgggctagcc tcttcctagg attccatacc ttgggccttt 240
atgttcataa cgacgttatg cttgcttttg gtactccaga aaagcaaata ttgattgaac 300
ctatatttgc ccaatggata caatctgctc atggtaagac gacatatggg ttgatatac 360
tcttatcttc aacgaatggc cccgctttca atgcatgtcg aaacatatgg tttgcccgat 420
ggttgaatgc tgntaatgag aatagtaatt cgcttttctt aacaa 465
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<210> 32515  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A6

<400> 32515

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agaggaggaa gaagaagcat cggcagcatg tcggagggga ctgccaactg cgtggacatc 120
ctgatcgcca tcctctgcc tccgctgggg gtgttctta agtacgggtg cggccacgag 180
ttctggatct gcttctctc caccttctc ggtacatcc ccggcatcat ctacgccatc 240
tacgccatca ccaagaacia ctagctagtc atccttgccg acgacgatcc atgtctctgt 300
atctgctgt gttcatatgc ctgatgccga cttgtgctgt atgtagttgc ttgaattcaa 360
tcgtgttttg ctaccgtacc caccatgc atcatctgtc ccgcgacgca ataatacatag 420
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 <211> 261  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G1

<400> 32516

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cctgtgcgct gccgccggcc ctgccgtcgc gcagaactgc ggctgccagc ctaacttctg 180

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gggcccgtgc cgctcgggcg g 261

<210> 32517

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G11

<400> 32517

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gtgaagcaaa taagtgcctt agaagaaagc tggaggagac cagcaaccag gtgcatggcc 120

aagtgtggga gcacgggtgcc aacttactcg gctacgagag gcactctcct caacagcagg 180

ccccatcaca tggttggaat ggtttgttct ttcattccct ggaagctgca gcagagccaa 240

ccctgcagat cgggttcgct cctgagcata tgaataactt catgccaaca tggctaccct 300

gaagatggat cttgaggcaa aggaataaaa taaagatgcg gtggcagcat catactctat 360

gcaagctaag aatgacagct gtgtttcagt cacatatatg atctagtctg tgtgtcaatg 420

tgtcgaaaaa catgtctgtg attttg 446

<210> 32518

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 ggcgctggtg gtcgaccgtg gaattgctgc gactccgcta tcaaggacgc ctccctgccg 240  
 gcgtggcgct gcaacgacgt ggtggacaag tgctccggcg actgccaaaga ctgcgaagcg 300  
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<210> 32519  
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 <212> DNA  
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 <223> unsure at all n locations  
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 ggatgcgatg ccttggcatt cccaatacta agaatttcaa tgaaattaca tccatcgagg 180  
 aggcgaaagc gctctgggag aaaattcaag caccgacaagg ggtgaacaag tggcggccag 240  
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 acctgcagcg tcaaagcctg atctagggct cctgctgggt aaagttgtcg ggatttgttc 360  
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<210> 32520  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-041-Q1-K1-G3  
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catggagcac aaggaggctg ggtgccaggc ccccgaggga cccatcctct gcatcaataa 180  
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ga 242

<210> 32521  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G4

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aagcttccga caccgaagc aacccggcg tcgaccaccc tttttcccaa gcctccgacg 180  
cccaagccga ccccgccgac gtaaactcca agcccaagc cttcacacac gcgatgccca 240  
agccgaaccc accgacgtac acccctttcc caaagccttc gacgccaag ccgtccccac 300  
cgacgtacac cccttcccca aagtctatca caccgaagc gacccaacg acgtacactc 360  
ccaca 365

<210> 32522  
<211> 273  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G5

<400> 32522

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aaactgttgg catatcattg aatttgctta taaacgtggg gaaacataac ttgcctggga 180  
agtgggtggc gtcagcctgc gatcgtgaac tgtaacttat cgaaaatgca acggagtttg 240  
ggactctact atatgatttg tttcagtttt tct 273

<210> 32523

<211> 390  
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 <213> Zea mays  
  
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 ttcaagggtc gtctgggttca gtactctgtc gctatgggtc tgcattgcgg tatcggtttt 180  
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 aagatgttgc gctgtgggtc agatgttgtt caccttggaa ggggtacaatt ttgcctttta 300  
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<210> 32524  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-G9  
  
 <400> 32524  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgccctt tttaaagttc 180  
 ccaattttac ttccccttcc ttccaaattt aaattttttt tttagggtcc cctaattaaa 240  
 attaattgcc ctttttttta aaacttttaa atttgaaaaa ctttggtttt cccaaattta 300  
 aaccctttta aaaatttccc ctttttccca ctttggttaa taccaaaaag cccccacca 360  
 ttcccctttt caaaaaattt cccaccttta atggaaattg gaacccccct 410

<210> 32525  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-H10

<400> 32525

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taaggccgcg ccagggccgg cgtcgtcgtc gggctcgggc gcgggcgcgg cggacgcggc 180

gccgccgacg gacgtgaaca aggcgctgaa agacgagcag ttcagcgagt tccggcagct 240

ggtgcacgac acgcgcgtgg acacgcaa at caacgcgcaa ctgacggaca gctacaacgg 300

gctgaccatc atgggcgcca ccaacgcgcg cttcgacaag atgaaagccg gcgtgctgaa 360

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c 421

<210> 32526

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H3

<400> 32526

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cactcggttc ttgtgatcat gtcttatgca gacctgtgaa ctgtggtgtt tctgacaact 180

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<210> 32527

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H4

<400> 32527

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tctaaaagg taaaccaacca gggcagggtta atcatgtgat tctataacca ttgacccat 180

tttttacaga atgacagtgg aattaagcaa aagatttaaa caatgtaatg acttgctgag 240  
gactgaagta ttaaagttgt gtcaagacaa caattttcaa acagggtttt ttgaaggcac 300  
tgataatagc actgttgttg atgcttacga gttgaatgta aatctaaatg tacactctgt 360  
actaactacg tgtacacatt aattgaacct atcgagcaat 400

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<211> 301  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 32528

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caagtcggag aaaccttctg cctaaggcgg cttttttttt cagtaagaag cttttggtgg 180  
tctgctgtgc ttaatcatgc ttttatatgg cttctacatg ttgtggttct ttcttgatct 240  
gcaccgcgct tatcgantgt gttgtactgc cctaataatt ggtgcttatg atgactgttt 300  
c 301

<210> 32529  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H7

<400> 32529

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gtgcttgagg aaagctattg cgatagttaa acctggagtt cggttccgag aggtcggaga 180  
agtcataaac agacatgttt caatgtcagg tttatctgtg gtgaaatctt attgtggcca 240  
tggcataggg gaactgtttc actgtgcccc aaacattcct cattattcaa gaaacaaggc 300  
cgttggtatc atgaaagctg ggcagacatt tacaattgaa ccaatggtca atgcaagggt 360  
ttggaatg 368

<210> 32530  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H8

<400> 32530

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 actcgctagt cgctactgat ggttccaaga gcaaaggccc atgttgtttg ggatccagta 180  
 ggcccaatca agccgttgac tccgaggaga gccgctgccg atgtcctcgc ctcttgccga 240  
 caccttcacc cactcccagc aggccaggcc agcacacatt ggcgcttctc gccggagaag 300  
 ggtgggcgga ggatgccctg cctggcccct gccaatlgac ggccacatgg cttcttctag 360  
 cagttgcagg caagtagata aacctaccac gacgagcaaa cgcagatctg tagcctagta 420  
 cctcgtcttc actacttctc gttcgggggtg gt 452

<210> 32531  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A11

<400> 32531

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 cctctccttc taccctcca actcctacct tctogatgtt catgatgagc ttcttgctgc 180  
 tattaatgat tctaagaag gtcttctcca tttgaagctc tctatgctac ttaatcaagt 240  
 atattatata ttccatata atgaatcaat atcccaatca ccctaatttt ctattgactc 300  
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<210> 32532  
 <211> 238  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3068-042-Q1-K1-A3

<400> 32532

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aagggccgtc ggcggctcac cgcatacact gcgatgtgcg gtgctcttca gagagctgaa 180  
ccctacttac tgatgaaccg attccaaggt tgacggggccg ttaatcacag atgataac 238

<210> 32533

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F9

<400> 32533

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agcaaaat ttataaaaa aaattaaata aacataaaat acaaaaaaat aacatattct 120  
ttaatatcaa cctaaattct attcactctc ctactttaaa caacattctc tatttc 176

<210> 32534

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A4

<400> 32534

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ttcgggcgtt cggccactcg ttctttcact cttcctccca cgcgttcaac cactcgtacg 120  
tcacgcttac tctatatctc gagcagcctt tctataagt 159

<210> 32535

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A5

<400> 32535

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 ttgcggggcg cagatcttca gattgcttac gggctacagg tataattgcg tgacactcat 120  
 ttgactgatt ctaagctcgg aagtgcaa atgttcttgag ctatcacatg atctacagac 180  
 tgatcctgta gcttgatact gcgtatactg ttctttacag atgcatcgta tgcaatgcgg 240  
 caggaccatc tgcagagttc agaactcatt catgagcgac aacacgaa 288

<210> 32536  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-041-Q1-K1-D4

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 ttgcgaagaa gggctacatc ccgctcacca cctacctncc cactacaag atcggcgatt 180  
 acgtcgatgt caaagtgaac ggcgccgtcc acaaggggat gccgcacaag ttctaccacg 240  
 gccgcaccgg tcgctgtctg aacgtcacca agcgcgccat cggcgctcgag gtcaacaagc 300  
 aagtcaatgg gcgcacatc aggaagcgta tccatgtccg tgtggagcat gtgc 354

<210> 32537  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D8

<400> 32537  
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<210> 32538  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D9

<400> 32538

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agctgtccga ggcggagatc cggcagctct gcgtagaggg caagcgggtg ctctctctcc 180

agcccaatct cctccgaatc cacgccccag tcaagatctg cggatgatgc catggccagt 240

ttgtcgacct tctgagatta ttcgatttgg gtggttatcc tccagcttca acttacgtat 300

tcctcggaga ctatgtcgat agaagcaaac agagcctgga gactatatgc ttgctgctgg 360

cgtacaaaat ccggtacccc gaaaatattt tcctgttgag gggtaaccac gaggatgcaa 420

agatcaacag agtctatggt tttta 445

<210> 32539

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E11

<400> 32539

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aaggttatgc gggattcgaa tgggtgtcagc agaggttctg gatttgttgc tttcaaactc 120

gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatggttgg aagcaagccc 180

ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaagctaca ggcacaattt 240

tcacaaatgc gtctgttgc aatggcgcct tcagtaggtc ctgcgatgcc catgtttcca 300

cctggtgtcc ctggagttgg tcagcagctg ttctatggtc agccaccacc agccttcac 360

aaccctcagg ctggatttgc tttccagcaa cctctgatgc ctggtatgag gcctggtggt 420

ccaatgccga actttatgat g 441

<210> 32540

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E2

<400> 32540

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 agatggtgca gggcctgacc taccgaaagc gtcacagcta cgcgacaaaa tccaatcaga 120  
 cccgggtcgt gaagacccca ggtgggaagc ttgtgtacca atacaccaag aagagggcga 180  
 gcggtcccaa gtgccccgtc accgggaaga agatccaggg gatccccac ttgagacctg 240  
 ccgagtacaa gaggtccagg ttgtctagga accacaggac tggttaaccgt ccttatggtg 300  
 gagtactctc ttgaatagct gttagggaga gaattatccg tgctttct 348

<210> 32541

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-E5

<400> 32541

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 tgcactccat cggcgtctgc tacggcacgc tgggcaacaa cctgccgtcc agcagcgacg 180  
 tgggtgcagct ctacaggtcc aagggcacga aaggcatgag catctactcc cccgacgcca 240  
 aagccctcgc cgccctgcgc aactccggca tcgcgtcat cctcgacacc ggcaacggcg 300  
 gcggcgctct gggccagctc gccaggagcg cctcgctcgc ggactcgtgg gtgcagagca 360  
 acgtgcggcc ctactacccc gncgtcggca ttaagtacgt cgcggtgggc aacgaggtgc 420  
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<210> 32542

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-E6

<400> 32542

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 gagacaggag cggaccgcgg ctggccaagg agctcggcag gatcgagccc aagaagctgg 120

gcacgcgggct ggttgccggc tgctgcttcg cgctgctcac ctacctctcc ttgtcccggc 180  
 tgtttgccat ctactcgccg gttttcgaca gctcgctgctc catggtgttg aagaacatgc 240  
 cgncagcaac gacgacggtg ccgggtacag ctacaggggc gc 282

<210> 32543  
 <211> 211  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E7

<400> 32543

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 cttatcatct ctactatttc ccctactgc aatgcactga ccaacttctt acaatttgtc 180  
 cacttgtaa acctctactt tacccaactt a 211

<210> 32544  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E9

<400> 32544

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 ccatggagca caaggaggct gcgtgccacg ccccgaggag acccatcctc tgcataata 180  
 actgtggctt cttcggcagc gcggcgacca tgaacatgtg ctctaagtgc cacaaggaga 240  
 tgattacgaa tcaggatcag gccaagctgg ctgcctcctc tatcgacagc attgtgaacg 300  
 gcagcgacac cgtcatggag ccgatgttg ctggcagcaa cactgtagta gctgttgccc 360  
 aagtcgcact gcgaacaatg aacgtgcac aacccgctga tggtgcccga ccagctagg 420  
 ggggtggcggc tatctacaaa ggg 443

<210> 32545  
 <211> 424  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F10

<400> 32545

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ggacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa 120

gaggggaacg gggatgagtt gcggttttac ctctgctgtg atatattgta ggtgccacta 180

tgtgtattgt tccccctat ctactacgtg gcataagttg tattctagta tgttgaaagc 240

tcatggtgcc gtgctgtatc aataaagttg tatgcgcata gagtggctca agaccaaggc 300

tgcgtttgcg ctttgccact ggcttgggtg tatggttctt ctgctgctat gccattaggg 360

tttaaggatt gtgtgtggat ggcgtcgtgc ttgtagtgtt aactggattt gaagcggact 420

acat 424

<210> 32546

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F11

<400> 32546

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ctgcagatcc aggatggccg tcctccttga gaccttgcc ccccgagtgc tctcggtgag 120

ctactttgtt tcgatttata aggaaatccg tttgcttcat gttgtgcagg ctcataatctg 180

attgctggat tcggcaaacc cgcgttggat cctgtatcgg ttagtccttg cctgcaaggt 240

tcttgttgtt ttgttttggg ggtcgagcat cgcattgtct gcttctggat ccagatctgg 300

agaaatcgcg aagtcgtcgt cgttcgggtc ggagcggatc tgaggcgacg atagatggag 360

gcggcgggat ctctcggtct gcagtcctgc tccacctcga tggatgatgt ctctgcgctg 420

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<212> DNA

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<400> 32547

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agggttatgc gggattcgaa ggggtgtcagc agaggttctg gatttggtgc tctcaaattct 120  
gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatggttgg aagcaagccc 180  
ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaaactaca agcacaattt 240  
tcacaaatgc gtctgttgc aatggcgcct tcaataagtc ctgcgcatgcc catgtttcca 300  
cctggtgtcc ctggaattgg tcagcaactt gtctatggtc aatcaccacc agcctttatc 360  
aacccttatg cttgatttgc t 381

<210> 32548

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F3

<400> 32548

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cagcggcagg tgtattgtgc gggatatgtaa tggatttgca actatattgg gtgtaaaacc 120  
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<210> 32549

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F4

<400> 32549

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gcaagggaaa attgggctct ccattgccag catcctggtt ttctggcagg aagagtgtc 180  
agaaagcgtc acccaaagtg ccattcaaac tgtcaaggag tcctattcat gataaccatg 240  
ttatgtcatt tgatgcaacc gtgaagtctg tatcacaaga gcccaggccc gataaagggg 300

atctggatga agataattca catattaaca tcaagaatac tcctatcagc gagattgaag 360  
aagataataa agatgctaaa g 381

<210> 32550  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F5

<400> 32550

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tcaggaaatc cgtttgettc atgttatgca cgctcagatc tgattgctgg attcggcatc 180  
ttacgggctt gaatagagct aggactggga gaaaacaaca aaccgcggtt ggatcctgta 240  
tcggttagtc catgccttca aggttcatgt atgtctgtat tggtggtcga gcatcgcgatg 300  
ttctgcttat ggttccagat ctggagaaat t 331

<210> 32551  
<211> 393  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-041-Q1-K1-D2

<400> 32551

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ttctgctgta cacaagtcca gagtcttata ttgcgctgcc ttcagatgta catggaccaa 180  
aaagaagtgg tcgatgccct cttccaccac tcgaagatag agccctgcat tactgaactt 240  
gtttggcgac aacttgagca tcaaaatcct ctggttttca aggcgtatta tatgaggcta 300  
atgcttaaga ctcanataat ggtcttcaac aagcttcttc aggatcagtt tgaggttatc 360  
aataaagaat tttcttcagg gatcccttct atg 393

<210> 32552  
<211> 317



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-F7  
  
 <400> 32552  
  
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 gtccagcttg ggagaatata tcggctatgt caaggatgcg atatggtgat gcagtaaaac 120  
 ttatgtaatg cttgaggatg cttcaaattg gttttctagt gctggaactt accatttcaa 180  
 gtctgaccct gtccaatgca cccgcaaagt gaggtcgacg tgcagctaga cttgacacac 240  
 tttctgcttt tctagcttat ttgtgtgctt tggtttcttc tatttcaaga gaccgaagcc 300  
 taaatcaact gaacacc 317

<210> 32553  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-F8  
  
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 tgacgggcag caacaagaat gcgcacctca agggcaacgt ggtgctcgtg cgcaagaccg 180  
 tgctcggtt ggacgtcacc agcatcgccg gctccctcct cgacggcatc ggcgagttcc 240  
 tcggccgcgg cgtcacctgc cagcttatca gctccaccgt cgtcgaccct aacaacggca 300  
 accgcgggaa gttgggcgcg gaggcgagcc tggagcagtg gctgctgaac ccgccgtcgc 360  
 ttctgtccag cgagaaccag ttccgcgtca ccttcgactg ggaagtggag aagcagggca 420  
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<210> 32554  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-041-Q1-K1-A9

<400> 32554

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ctcgtttcat tatccatggc tgaggagaag caccaccacc accacctgtt ccaccacaag 120

aaggacgagg agcaggccgc ggccggcggg tacggcgagt ccgccgagta cacggaggcc 180

acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg acgagtacaa gaaggaggag 240

aagcagcaca agcacaagca gcacctcggc gaggcggcg ccacgcggc cggcgccttc 300

gcactctacg agaagcacga ggcaagaag gacccggagc acgcgcaccg ncacaagatc 360

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<210> 32555

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B1

<400> 32555

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ctgttcagtg acctacaata taaaactgg taacaacct 160

<210> 32556

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B10

<400> 32556

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gcgggcttat cagtagcaac agtttatgat ccatcaaaat caaggaaaat atgcactgcc 120

ccgcagcttg tgagtgagaa tgaaccacaa aagtatcggg atgtaattta tggtgactat 180

gtctcatctt ggtatagcaa aggtccagag ggcaagcgaa acatcgatgc cctcctgatt 240

cagcactaga gccataagta tgccttaaaa caagggtggg ccatcattc tgttcctaaa 300

cttctaaagc atgtacaata tatcaagttt caactctaaa caatcatgat taggaaacca 360

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<210> 32557  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B2

<400> 32557

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 agtcaaattg gtttccccct gctctttgtg gtgtacgtgg cgcttcttgg tacctgtatc 180  
 gggtagctgc tccgcatatg agttccaaac ttcaaaaaag ttcagcagat gggatattgct 240  
 tcgtatgtgg gcaagacaat tgaacggcag atgcactcca aaatgttgag ggggtgaatat 300  
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 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B3

<400> 32558

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<210> 32559  
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<223> Clone ID: LIB3068-041-Q1-K1-B4

<400> 32559

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 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaacgaaa aacataaaaa aaaaaaaagg ctagaatgca ctagcatt 168

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 <213> Zea mays  
  
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 tacactcatt cttcatgagg agattgagtt tggtgagttt gaacgtcatg gtgctggggg 240  
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 tctcttcaga aacattcaaa ggaatgaata ccacaacctc ttcaatttca tcaatggaaa 360  
 gaacattaaa ataatgaacc ttggaagaga tgggtcaaggt gcaagtgggtg tagttacaga 420  
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<210> 32562  
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 <223> unsure at all n locations  
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tcggagatgg ctgcctcacc agctactgct atgaccggct ctctgcaac ggggccgtgg 120  
gcccccgcc ggccacgcta gtcgaggtga gcctgcacga ggacgccgag aaggggagct 180  
cctacgacgt gagcctgggtg gacgggtaca acctccccgt ggccgtctcc gccaagccag 240  
ccacggggcgg cgcggaactcg aacaagtgcg ccatcgccgg ctgcgccaag aacgtgaacg 300  
cgggtgtgcc gccgggactg caagtgaccg ctaccggcag cggcngcggc aagacggtgg 360  
tggcg 365

<210> 32563  
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<213> Zea mays  
<223> Clone ID: LIB3068-041-Q1-K1-C11  
<400> 32563

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gcaacaggtg cggaaggga ggacattgtg caccatggtc accgtggaag tgctttgagc 180  
atgagaaggc aaagcctctt aggggagggg ggagatgggtg tgagcagcac tgatatcggt 240  
gggggatggc agcttgcttg gaaatgggtca gagaaggaag gtgagaatgg tagaaaggaa 300  
agtgggtggt tcaaaagagt ctacttgac caagagggag ttcttggtc aagaaggggc 360  
tcaattgttt cactttccgg tgggtggcgat gttcttgagg gtagtgagtt tgtacatgct 420  
gctgcttt 428

<210> 32564  
<211> 337  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-041-Q1-K1-C2  
<400> 32564

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cgtccagggg gacctgtttg ctgccttcaa gatctgatta tgctctcatg gtctgtattg 180

ttgtatgggtt ggaccaaca atattcttgc atccccgact acaggtctga tcgccatgaa 240  
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gctttctgga accatacgaa tcaataagaa atgagct 337

<210> 32565  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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atcactcaag ctcaggtcgt agctggtggt ttctggttgg cggngctctg gcgatcatgt 180  
ttagagttca gtggcagtgt agtcatgctt attagtgggt agcttgtgtg tgagttgttt 240  
gcgattcatc tctgtgtctg tgtgtgccga gttggttggg ttgcaatttt tgtcatgtgt 300  
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<210> 32566  
<211> 352  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgtgaaagtg gttgatattg ttgacacatt ccgtctacag gagcaacctn cttttgacaa 180  
gaaatcattt gtgtcttaca tcaaaaaata catcaagaat ctactgctg tgttgagacc 240  
agagaaagcg gatgagttca aaaaggggtg cgaggggtgca accaagtttc tccttagcaa 300  
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<210> 32567  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-C6  
  
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 acgagggaga ggggtttcct actatataca tgtgtaaaaa tttgtttcat gtaatcttgt 240  
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<210> 32568  
 <211> 149  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-C7  
  
 <400> 32568  
  
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 aaaaaaaaaa aaagaaaaaa ttaaaaaaaa aaaaaaaaaa aaaaaaaat aaataaattt 120  
 taaaaattat tcaatctaac aaatacaaa 149

<210> 32569  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-041-Q1-K1-A8  
  
 <400> 32569  
  
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 tgcaccctta caacaaatgt ttatacatca cgaagtcaag tgcacacctc tcaaatttgc 180  
 tctataccac tgcacgacgc tcattctcggg acaggcaaca acgcatcatc tcccagcagc 240

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<210> 32570  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C8

<400> 32570

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tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180  
accgaggaag cgccggtggc ggagaccccg gctccgccc cgcgcgtgcc cgaggaggct 240  
gccccgccc cccaggccaa agtggaggag ccagctgccc cggcggagac cgagccagct 300  
gcccgcgctg agcccagggc ggccccctg gcggctgatg aagagacgcc aaaggaagaa 360  
gagacggcaa aggaagcgga gccggagccg gaaccggcgg 400

<210> 32571  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D10

<400> 32571

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ccatcctact aggaaattat gagccagttg atgagggcatg aattatttca cgacttgccc 180  
gcggttagtg tgaaaaggcg acgctgctat atatggcat cacccttggc ttgtccggtc 240  
gccagatata acgattatca tatttatcgg ttgtaataata agcttcttgt attagcatat 300  
ggtttaatat tttttttcaa atgggatgaa gtcctgcgtg atatcctatc tgtaaatagg 360  
aaggcactag cagatcttga ccaatgtaca actgggtttt tttttgagaa acttgaata 420  
agaattattg gtcacc 436



<210> 32572  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D12

<400> 32572

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caaggtcatc accgaccggg agacggggag gtctcggggt ttcggcttcg ttaccttctc 240
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taacatcacc gttaaccagg cccagtcctg tggcgggtggc ggtggcgggc gtggctacgg 360
cggcagtcgc agcggcagcg gctattgtgg cgggcgcctg gacggcggtt attgcggcgg 420
tggc 424
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<210> 32573  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H4

<400> 32573

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aaatacaacc taaaattaaa aacccttcaa tataacttcc ttgctccatt cttaaattcc 180
ctaacttcta tcaatttccc cattttatac atcaaccttc tttaaaaaaa ccttcctatt 240
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ttcccccttt aacaaatt 318
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<210> 32574  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H6

<400> 32574

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ctgccgggct acgtcggcgg cgtcggaggg ttctgctggcg ccggcgccgg cctcgggggc 180  
atcggaggcg ttgcgggagg cattggcgggt atgactggcg gtggtgtcgg cgtgtcgtc 240  
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ggcgggtcag gtctcggcgg ccttggtggt ctccggcggtg gcggcgccct tggccttggt 360  
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<210> 32575

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-H7

<400> 32575

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gccttctgat cgtcaccat gccactgcc gaggtccaga ccccgaccgt cgtggcgacc 180  
gaggaagcgc cgggtggtgga gaccccggt cgcggcgccg tcgtgcccga ggaggctgcc 240  
cccgcggcg aggccaaggt ggaggagcca gctgccccgg cggagaccga gccagctgcc 300  
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<210> 32576

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H8

<400> 32576

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cgtatatcaa ttccgatata tacaaatata tacagaaatg caagcataga ggataggctc 120  
atggccttggc tcattgcttt ggaaatagac atggtacatg ccataatata taacaaggaa 180  
caggagagcc aactgaatag ccagatgcat gtaaggatcc ataagagatc atagaagaga 240  
tcattcttaat agcaagctta tctactagaa tttctagatt cattagatga tcgattacat 300  
aagataatac gtactattct aagttctata caatagcctg aag 343

<210> 32577

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H9

<400> 32577

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ctaaacctca cccaacatca taactaacat acaaaacca cctacttacc ctacttaaac 180  
catacttaat tacatccc 198

<210> 32578

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-A5

<400> 32578

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acaatgtcat acaccccaaa ccccccgca acaccaacac ctgaagccaa aacgaagagc 180  
cgaacccccac tagataccca cacaatacct aaaaccacgg taaacgtagc ggctacatca 240  
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<210> 32579

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B1

<400> 32579

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aaacaactaa aaaaacaaac aaaaaaccaa aaaaactaaa caaaaaaaaa tacatacaaa 180  
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<210> 32580

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B12

<400> 32580

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ggggacaagg tctacaccac caagaaagag tcacctcttg gggtgccaac gcaatctgct 180  
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<210> 32581

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-C10

<400> 32581

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catactacat caacagaagg gggacaaggt ctacaccacc aaaagagtac ctcttgggtc 180  
caacgcatct gctcaccac tcgttctacc tgatgacaag tactct 226

<210> 32582

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-D4

<400> 32582

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aaaataaaaa aataaaaaga aaataaataa aaaaaatatt aaataaatag aaaaaaata 120  
taataaatat aaaaaataa aaataaaaat aaaaaaata taaatataaa aataaaaaaa 180  
aaaaaaaaa aaaaaataaa aataaaaaaa aataaaaaat aaaaaaaaaa aataaaaaat 240  
aaaaataaat aaaaaaaaaa aaaaaaaaaa aa 272

<210> 32583

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-040-Q1-K1-F1

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tttatcgtn taaattttac aatctgggga aatctataac agaggctcat actccttaac 120  
catcataagc tcgatcatca aaaaaatata actactttgt acaccatcat gactctataa 180  
gtatacatga tataagatca atatatactt cttttatgat aacatatcat gttccttctc 240  
tatttggtat cactgataat tctctcaatt catcaaacca tatatctcct ttatctatta 300  
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<210> 32584

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-G5

<400> 32584

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atgacttcaa cgtgcaagag gatcgtgaag gagctgctct cgtacgataa ggatgtgtac 180  
aaggacgctt tcaagaccga cgacatgaag gacaacggct ctgatcccta cgacctcaaa 240

catcacgaga atgttttgcc tgagtcaagg atgattgtcc cagactgtca caaacgactt 300  
gaaactgcac tttcttactc gaaagcaaca ctggcttaac tgaaggagtc aaatgatcaa 360  
ggtacctata ttgtacaaac tgatagtaca atcgcacaaag tttgaatcat t 411

<210> 32585  
<211> 277  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-040-Q1-K1-H2  
<400> 32585

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aaaaaaaaa aatataaaca aaaaaataaa aaaataaaac aaaaaaaaaa aaacaataaa 180  
aaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aataataata 240  
aaaaaaaaa aaataaaaaca aaacaaaaaa aaacaaa 277

<210> 32586  
<211> 270  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-040-Q1-K1-H5  
<400> 32586

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aaaaggcccg ccaaaaaaaaa aaacaaacaa taaaaacaaa caacaaaaaa aataaacctt 120  
ataaaaaaaaa caacaaacaa aataatcaaa aacaaaaaca aaaacaccca aaacaaaaaa 180  
aaccaaaaat aaaacacaaa accccaaaaa aaaaacaaca acaaaaaaaaa aaacccaaaa 240  
aacccaaaaa aaaaaataac aaaacaaaaa 270

<210> 32587  
<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-041-Q1-K1-A1

<400> 32587

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gtgcgctgcc gccggcccgg ccgccgcgca gaactgcggc tgccagccta acttctgctg 180  
cagcaagtgc ggctactgcg gcacgaccga cgctactgc ggcgacgggt gccagtgcgg 240  
cccgtgccgc tcgggcggcg gcggcgccgg aggcggaggc ggaggcggaa gcagtggcgg 300  
tgcgaacgtg gctaacgtgg tcagcgacgc gttcttcaac ggcatacaaga a 351

<210> 32588

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H2

<400> 32588

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atcttgccct acttcagttt actaaattat gatctgccac ttcattgtcac tctgtcctg 180  
tgtacattca tcaagaacaa gatgcagaag aacgaacctt aatctatcta tgtatgtaaa 240  
gcctaaactc ccacccaaat taacaatgga tcgatcaatt ggagtccaag gcaatcaatg 300  
gtaacagcaa cagttctata tataact 326

<210> 32589

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A11

<400> 32589

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ccaggcttgg agctatctcc agccatggat gctctcatga gagtttttaa gcgtgtcatt 180  
gggataacag atggagctgc ggagggcact caggctgctg ctactcctgg tgtatgtgct 240

gccccgattgt tggttcctgg agctcaggca attaacctaa ttgggaagca agtgccact 300  
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gagagaccat tttatgtaac tgacgatgaa aggatagttg agatacaggg cgatacagag 420  
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<210> 32590  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-041-Q1-K1-A12  
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tcacggactg cgtggacacg ttccggcgca agaacctgga caagcaagag gagtcttgcg 180  
tccgccggtg cgcgagagaag ttctgaagc actccatgag ggtcggcatg aggttcgccg 240  
agcttaacca gggcgtggcc acgccggact aagaaacatg ctgctgctgg ctgtggccgc 300  
caggtttctg gctttgctgg cacagatttg tagccgacaa aaggatttca gcactttcgc 360  
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ttgag 425

<210> 32591  
<211> 357  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-041-Q1-K1-A7  
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gcacagatgg cgctgtacat ggcgtacagc aggaacagga agcccgggc gccgctggtg 120  
atactaccgg agcagtccaa ggaggaggcg gccgagggca aggccagctg cggcggcgcc 180  
gaggtgcacc ccatcgacat cgcggaggtc cacgacctgc aggccgtggt cgtcgacgta 240  
gacgtggagc ctgtcaccta cgccgctgcg tccggtatgg tcgacggcag tgcggcagg 300



cctagggcgc cggagcagct ggtgatcaag cccgacatgg tcaccgtcat tgcggcg 357

<210> 32592

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<212> DNA

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<223> Clone ID: LIB3068-039-Q1-K1-E2

<400> 32592

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tccgggggttt cattggccag cgggggcgca cccgacacct ctcgatgtgc ggtgctcttc 120

cggccgctgg accctacctc cggctgaacc gattccaagg ttggctggcc ctttaagcaga 180

aaagataact cttcccgagg cccccgccgg cgtctacgga cttcctaacg tcgccgtctg 240

ccgtcacgtc cctgctcggg aaatcttaac cccattccct ttcaggtgac gcgcgttatt 300

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<212> DNA

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<400> 32593

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atcttgccct cgttgaatgg gctctgttgt tgaaggactg atagtgttg taaaaaatg 180

ggattgtgca gtgagcgggt gattggcaag gggaaagatt gggatgggtcc agtaagtga 240

caggcgacag ggatgtggcc ttaagccccg ttgcccatgg gatggttgcc gggttgagct 300

gaggtggcat gatgacgatg ctggttcttg ctttgccatg tgcaatcgtg gcacca 356

<210> 32594

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E8

<400> 32594

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cgcacgcgga gcatggaccc gcgaggtccg ctgaggcggc cccctgctac gaccggttcc 120

ccttggacga catcgacgat gcgtgcgagc tgcggtggtg atcgtcgtag gaggcggcaa 180

accccgcggc gtcgactacg aagtagcgcg aggcggcgct gcgcacggca acgacggccg 240

cggagaagag cagcagcccg acgaccgacg cttggatcac cgccgaaagg tccagtccca 300

agcccgcgcc cgcgcccgcg ccaccgtctt cgggtccgac cccagcatc taat 354

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F10

<400> 32595

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agaaaaaaaaa gggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaataaaaaa 120

aaaaaaaaaa ataggttgag tgacaagggg tccaaacatt caaccaacga ttttctaaga 180

tgtacaggac ggtatgaaga ttgctaaaag aagagatatt cgcccctgtg caaacgatcc 240

tcatggtaaa 250

<210> 32596

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F11

<400> 32596

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agctgtactg aaatgctgcc acaagggctg gcgaacctac gtcacgtca gcctcgccga 120

ctctggccag gatatcgcca cagcaccatt ccagctcgtg actgggcgtg tctggaaggg 180

aaccgctttc gatggcttca acagccggac ccaggtecca tggcttgttg acaagtacat 240

gaaaaatgaa attaaagtgg acgagtacat tacgcacaac atgaacctgg ctgacatcaa 300

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332

<210> 32597

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F12

<400> 32597

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ggaccaaaag gagaaattgt ggcccatgtt gcaaaagctt aatgttacca tgaaggctga 120  
tgagaaggag ttgattggca aagctttgat gaagcgtgtt atgcaaactg ggctaccagc 180  
cagcactgca cttcttgaga tgatgatatt ccaccttcct tccccggcaa aggctcaaaa 240  
gtatcgtgtg gagaacttgt atgagggacc ccttgatgat gtttatgcaa ctgctatcag 300  
aaactgtgat ccggagggcc ctcttatgct gtatgtttca aagatgattc cagcatctga 360  
caagggcagg ttctttgcgc tttggtcgtg tcttctcagg gaaggttgct actggtatga 420  
aagttcggat catgggtccc aactatg 447

<210> 32598

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F2

<400> 32598

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ccttactttg ccaagctcgg tgacgccatg gtcacctgga tcgacgctg tgatgagctg 180  
aaccgcgatg gaccgcggc tgggaaagac acggacaagt agatgggagt ccctgacgat 240  
gcattcactt acctgc 256

<210> 32599

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F4

<400> 32599

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actgggtcgt ctggggggcc aacgaccgtt cagcatactt ccgttagtag catcatcacc 120  
acatccatgt tccacaacat actgagccac cgcagataca gcatttgccc atgcaccttt 180  
tacacctacc acaccttaat cgaagccttc agcaagttac ccagctactg caccacctgc 240  
gaccatccaa accgcctgca caagctcgac agcttcttct gccagacgta ccactaaacc 300  
accggatcat ttaccac 317

<210> 32600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F6

<400> 32600

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atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180  
tacgacgctt tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240  
cagacgcgca ggcgggagct cgccgccttc ttcggccaga cgtcccacga aaccaccggt 300  
ggatggggca ctgctccgga tggaccgttt gcttggggat actgccgggt gaaggaacag 360  
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taa 413

<210> 32601

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F7

<400> 32601

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cgaaaaaaaa gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120

aaaatataaa aaaaaataa ttaacaaaag caaacatatg ataatattaa attctcatTT 180  
 taaacctata aatcataatt cgtggcagac aatatataac ctcaattact gttaaaacaa 240  
 ataacgatca caaacttaat caa 263

<210> 32602  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F8

<400> 32602

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 cctcttccgg cataacaata tgcaccgaat attcagctca tccgctctcc tataaaaacg 180  
 aagcgcaaat ccaaaaaaaaa aaaaaccccg ccgcgacgac gcattgtccg ttccgtttgg 240  
 acccatgata tatctcgctg ggatcttgac cgtgcgagag acgaatctcc tcgtgcggta 300  
 accgataccc cccaagtcaa aaatcagccc ataaaatttt tatgggcgga ggatcaccgg 360  
 tcgccgcagt tcacgacgcg agcgacgacg gcgccagggt cgtggtgcta gtcgcgg 417

<210> 32603  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G10

<400> 32603

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 taccccaact tcctgtgctg aactcagatc aagtggtgca tccacacctc cctctactgc 180  
 agcaccgcac tccataacca gatcatattc cactttagtt tcaccccaaa ccctccaaac 240  
 aatcgcgctcg agaactccat tatcccacaa tctctatata accat 285

<210> 32604  
 <211> 357

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G12

<400> 32604

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 ggtcaaagct ctgtggggcca tctttaccga agcagcgagc ccgccaaacc aaccatggca 180  
 ccagctgtaa gtgctcgacg tgctgagaaa ccatatgggtg ccaagactga cgcgggcaag 240  
 cagcagctg ctggaggtac caaccaaagc aatagctacc acaaggctga tgggcagaac 300  
 actggcaagt tgcatacaga ccgtcctgta tacaacgtgc acgctgggtgc tggcggt 357

<210> 32605  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G2

<400> 32605

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 gcataacaat attcacctaa tattcagctc atccgctctc ctataaaaac gaaacgcaaa 180  
 tccaaaaaaa aaaaaacccc ttcctcacga cacattgtcc gctccctttt gacccatgat 240  
 atatctctct tggatct 257

<210> 32606  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G6

<400> 32606

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 gtcttcttgg gtgaccacgc ctccgcgcac catcgcgtct ccagcatcat caccocgccc 120  
 atgttccata gcattctcat ccaccgccac aactgcgggt tccattgctc cttctacacc 180

taccacgcat tcatacaaga catcagcaac ttcccaaact tctttaccac cgtctactag 240  
cacac 245

<210> 32607  
<211> 318  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-039-Q1-K1-G9  
  
<400> 32607

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ctcctctact acaaagcatc ttgggcacc tttctaactt tttaacatat ttgccatccc 120  
atccaaactc ctcatcttac aattttcttcc tcacatatca ttcttgctat accctgcctt 180  
ccaacctata ttatagactt atccccactt tcaacctact gactatgtta aataacgtca 240  
aaaccacttc tatctcactt acacctctat tctcccactt atcctacaac tttctaata 300  
ttttacacaa tcttacta 318

<210> 32608  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-039-Q1-K1-E12  
  
<400> 32608

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caacaagatg ttgcgctaca ttaggtatgg tgttgacggt ggagctaccc ttgtgacggg 120  
tggtgatagg ttgggtgaca agggtttcta catccagcca acgattttct cagatgtcca 180  
ggacggcatg aagattgctc aggaggagat atttgggcct gtgcagtcga tcctcaagtt 240  
caaagacctc aatgaggtta tcaagagggc aaacgcgagc cagtatggat tggccgcccg 300  
cgtgttcacc aacagcctgg acacggccaa caccctgacg cgcgcgctca gggccgggac 360  
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tgagcggcat cgggagggga 439

<210> 32609  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-039-Q1-K1-H10  
  
 <400> 32609  
  
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 catcatccac aagatcgagg agaagctcca catggggggc gaccacaaga cggaggatga 180  
 gcaccacaag aaggccgacg agcaccacaa gaaggaggag gtggagcacc acatgaagga 240  
 cggcgtagag catatggaag gcatcgtgga gaagatcaag gacaagatca cggcgagca 300  
 cggcgacaag tccggcgacc acattgcaaa gaagga 336

<210> 32610  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-039-Q1-K1-H11  
  
 <400> 32610  
  
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 gggcgaccac aagaaggaag atgagcacca caagaatgcc gacgatcacc acacgaaaga 180  
 ggagggggag caccacacga aggaccgctc ctagcataaa gaatgcatca tagacaagat 240  
 caaggacaag atcaccggcg agca 264

<210> 32611  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-039-Q1-K1-H12  
  
 <400> 32611  
  
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 cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgctg aactctttgc 180  
 tgagtatggc aatattactt cctgcaaggc tatgctggat tcgaatgggtg tcagcagagg 240  
 ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagattaa 300  
 tggcaaaatg gttggaagca agccccctta tgtaactctt gcgcacgta aaaaaaacac 360  
 gaaggcaaag cttctacgcc caatttttac aaa 393

<210> 32612

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32612

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 cgctcatggt ggcgtcatgg acatgctccg ttttcacaag tttacaattg gtcacatgac 180  
 gactacagac tatggttgtt cagataagga agaagagttc cagtgggtca ttaaataattc 240  
 tcccccttcat aatgtacgga gaccttggga gcaaagctct ggtaataact gccagtatcc 300  
 agcaaccatg ttgttgacag ctgatcatga cgatcgtgtt gtgccattgc attcactgaa 360  
 gttattagcc nactttgcag catgtcctgt gtaccagcac tgaggacagt ccgcagacga 420  
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<210> 32613

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C1

<400> 32613

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 gcccaaagct atgctgccga cattgattcc atcagggagg cgcacgccc cattgcgccg 180

tacgttcaca ggacgcccgt tatgtcgtcg acgtccattg atgccatggg ggggaagaaa 240  
ctctttttta agtgccagtg ctttcagaaa gcgggcgcat tcaagatccg aagtgtctcg 300  
aatcgcgatat tcgcact 317

<210> 32614  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-039-Q1-K1-C10  
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cccctagacg agctgcctaa ggtgctgaac gaacgaaact tacaacatgc taaccttctt 180  
ggtctaccta ataaccacca tgctgctaata ggcactaacg ctcatcatat aactctcgag 240  
tcaggattaa attgtgtatg ccaccacacac tgggtacatcc agagcactta tgccacaaat 300  
cgccaatgcc tttagcgaag cctgcactgc ctatgcagca acattgcgag acacgcttac 360  
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<210> 32615  
<211> 452  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-039-Q1-K1-C12  
<400> 32615

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gttagatgag gccatacaac ctctgacga tgacatgggc atctcatcat ctgcgtgggt 180  
agaagtagag cgtcaagaac tagaagtcac tgtttcgagt gaaaatgtat ttgttgagga 240  
tgtaacttct ccaggaattg caccattgcc gtcacaaagc ccaagagtgc gtcattcggt 300  
gtcacaaatg ctgcaagcag atcgcaatga accagaaatt atcgagtggg gaaatgctga 360  
aaaccacccc gcaatagttt ttcataagga ttctgcacca atgattcaag aggccttctaa 420

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452

<210> 32616

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C2

<400> 32616

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ttaattccat c 131

<210> 32617

<211> 266

<212> DNA

<213> Zea mays

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<400> 32617

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tgggcaagtc tacctggtca cagattacaa tatgggtcatg gctgacctta tgagctcaaa 180

actgtaaaaa catcaacagc accagtgctt ggtaaagttg gctccagctt cttgaccgag 240

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<212> DNA

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<223> Clone ID: LIB3068-039-Q1-K1-C4

<400> 32618

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tcagcacacc cagatgttga caaggctcgt tttactggga gttttgaaac tggtaagaag 180

attatggcgg ctgcagctcc tatggttaag cctgttacac tggaacttgg tggaaaaagt 240  
cctatagtag tatttgatga tgttgacatt gacaaagctg ttgagtggac tctgtttggg 300  
tgcttttggg ccaatggtea gatttgcagc gcaacatctc gtcttct 347

<210> 32619  
<211> 196  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ctttgtcagc acaccagat gttgacaaaag tcgcttttac tgggaatttt gaaactggta 180  
agaacattat agctgc 196

<210> 32620  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-039-Q1-K1-C8

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cttccgccac tacagattta acacacggag acgttaataa agttacttgc cctccgattt 180  
ataacattac tactgtgaaa acccttgcta ctctaattt aatctactat cagaaaatct 240  
ccct 244

<210> 32621  
<211> 284  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-039-Q1-K1-D1

<400> 32621

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tcagcacacc cacatgatga cataggtcgc tgttactgat agctttgaaa ctggtaagaa 180

gattatggca gctgcagctc ctatgggtaa gccagataca ctggaacttg gtggaaaaag 240

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<210> 32622

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D12

<400> 32622

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cagctgcatt tgggtctcctg ctgcctcacc aaccgcgcc atggctgctg gcgcaacgctc 120

tacgacacca taccctaggc ccagaggctc tacctcaacg gatgggtccgt gttccacacc 180

atccacctgg tgcgtgatgg ccaccaggac atggcactcg gcgacctgct caggaggaag 240

tcgcaggacg gcgtgcaggt gttgttgctc gtggggacga tcccacgtcc tggagcactt 300

tagcatcaag atgggtaccag gcatatggtt caccgggtgg ctccaaatga aaggttacat 360

gggcacaagg gatgaagggtg actcagagat ttttttagcg ctcttcggtc ctaatacggc 420

tttgcccacg atctgctagg aaaa 444

<210> 32623

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D3

<400> 32623

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ataggttgga aaaatggtgt tttcaaaacta gcccttagat aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aagaaaaaaaa atataaaaga tacaagaaaa 160

<210> 32624  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-039-Q1-K1-D4  
  
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 agaaaagaga gagagtagcc acttgctagt agctgggttca gtgccccggc aaattaatgg 120  
 ccatctccct ggtaaaggta gtcgaatgtt cttgtaatct tgtcaattgg aagctacact 180  
 gcactgggatg catgcccacc agtcgaactg agcatgcgat tttttccctc ggtcgcgccc 240  
 ggggtcatgta ttgtagtact cctcagtgtc tttttattta ttgctgaata gtgcaaaatt 300  
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 <213> Zea mays  
  
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 <400> 32625  
  
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 acgttatgct ggcttttggg actccagaaa agcaaatctt gattgaacct atatttgccc 120  
 aatggataca atctgctcat ggtaagacga catatgggtt cgatatactc ttatcttcaa 180  
 cgaatggccc cgctttcaat gcatgtcgaa acatatgggtt gcccggtatg ttgaatgctg 240  
 ttaatgagaa tagtaattcg cttttcttaa caataggacc tgggtatttc ttggttcatt 300  
 a 301

<210> 32626  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-039-Q1-K1-D6  
  
 <400> 32626

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 tacgtgaatc ggtgaataaa aaagagaaaa agaaaagaaa agagagagag tagccacttg 120  
 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180  
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240  
 aactgagcat gcgatttttt ccctcggtcg cgcccgggtc atgtattgta gtactcctca 300  
 gtgtctttnt atttattgct gaatagtgc naattatgct atccagcgac 350

<210> 32627  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-039-Q1-K1-B4  
 <400> 32627

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 gcccaggct atgctgccga cattgattcc atcagggagg cgcaggcccg cattgcgccg 180  
 tacgttcaca ggacgcccgt tatgtcgtcg acgtccatcg atgccatggt ggggaagaag 240  
 ctctttctca agtgcgagtg cttccagaaa gcgggcgcat tcaagatccg aggtgcttcg 300  
 aattcgatat tcgcacttga cgatgagcaa gtatcaaagg gcgttgtgac acatagcagt 360  
 ggggaccatg ccgcttctgt ggctttggct gcaaagcttc gtggcatacc tgcgcacatt 420

<210> 32628  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-039-Q1-K1-D7  
 <400> 32628

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 tacgtgaatc gctgaataaa aaagagaaaa agaaaagaaa agagagagag tagccacttg 120  
 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180  
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240

aactgagcat gcgattatatt cctcgggtcg cgccccgggtc atgtattgta gtactcctca 300  
gtgtctttttt atttattgct gaatagtgc aaattatgct atccagcgac aaa 353

<210> 32629  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D8

<400> 32629

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aatcgtatga attaaaaccc acagaaagcc accaaaaaac acacaatatc cacttcctat 120  
tcactccctc aacccccctt caaactaaac cccatctccc tttcaaacc actcgaatgt 180  
caatgtaaac ttatcaatag gaccctacac tccacttcat acatgccac cactccaact 240  
taccatccaa accttctcct ca 262

<210> 32630  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D9

<400> 32630

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aaaaaaaaaa aaaaaaaaaa aaaaatgaaa aatataaaaa aaaaaaaaat aaccaaaaat 120  
aataaaataa aaactataaa aaaaaaaaat aattatacta ttttatacta tccaatctta 180  
ctttctcttt cat 193

<210> 32631  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-039-Q1-K1-E11

<400> 32631



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gtcgcgcaac atcagagcac aagcgaggaa cccagtccag tcccgggaat ggagtgcgta 120  
ttgggcgtgg ttggccgcga cttcgcgctg gtggcgcccg acacttccgc cgtgcagagt 180  
attctcgtcc acaagaccga cgaggacaag gtgatgggtc tcgactcgca aaagctgatg 240  
ggcgcttcag gggagcctgg tgatcgggtg caatttacgg agtttatata gaagaacctn 300  
cacctgtacc agttccggaa caccatcccc ctctcaaccg ccgccgccgc caacttcaca 360  
cgcggcgnaa ctgccacag cccttcgcaa gaatccatat atgggtcaata ttattcttgg 420  
tggttatgat aaggatgttg g 441

<210> 32632  
<211> 239  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-038-Q1-K1-H6  
<400> 32632

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gacataatca aaaaaaagag taaccaatac tataacaccc aaaatacacc aaactaaata 120  
gacttgaccc tttgatcaac ccaacottca ttctcctcta ctccaacttc taaaccacct 180  
ataccaacac gtacaccaat aactctgata tcttcatact tactccactg ccaataaac 239

<210> 32633  
<211> 140  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-038-Q1-K1-H7  
<400> 32633

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taagattggg gttacattaa aaaaaaggta ttaataataa aaaaaaaatt atacataaat 120  
ataaaataat tttaatacat 140

<210> 32634  
<211> 274  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H9

<400> 32634

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ggccatcctt ctgctggccg ccgtcttcgc ccgcgtccca gctgcgcttg ccgaccgcga 120

cgacctggtg gcccttacct aatccacgtt ccaaaaggag gtcagaaagg accgcggcgc 180

cctcgtcgag ttctacgcc cctggtgtgg tcaactgcaag aagcttgctc ctgagtatga 240

aagacttggg gcaagtttta agaaagctaa atct 274

<210> 32635

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A1

<400> 32635

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agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcaa gccatgatgc 180

accgcattgg cagtcttcga cagccaaggc ggacatggaa atcgatgggt gatttgtagg 240

ttccagagtg gcaagaaagg gaatcccctc taatcattat gtatactgtg gtcagaatgt 300

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cgtttggtta c 371

<210> 32636

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A10

<400> 32636

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ggttgaccat gctggatatg ctggtggctc tgggtggccgc acagtagccg ctggtgcacc 120

tgcaaaatga gggacaacat agctgttgca cgtctcctgt gtcgttcggt ggccctcaga 180  
 ttgttttgaa gttggcatag agatccatca attggtcgag tgcgggggta ccagaaaagg 240  
 ctggatacaa atttttggag ttctgtttca tcactatttt tgcaggcaac aaaagctaaa 300  
 aaagtgatta ctaattgagt aattgtagaa tagacaccta ttcagatgta gtttttagttt 360  
 tggtc 365

<210> 32637  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A11

<400> 32637

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 gaaaggttca gcagctacga gtgcatttcg tcctgctgaa ccaaggaaga ttttggagat 180  
 tcctgctgct gcacgcgaca ttccagtatc tcatgctgct gggaagcagt ctcgctccac 240  
 gcttgggtttt gatttgaatg ttgcagatga ccaagctctc gaggaagata tcccacagag 300  
 ttctgcacag actacctgtt ctgaatctgg aaatacgaga agtcgagatg gctcttcacg 360  
 aagcgcttgg cattgaactt gatctgaaca gagctgatga agttgcagat aatggccaat 420  
 ttgcaccaag tgcttcgcac 440

<210> 32638  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A2

<400> 32638

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 ctgagccacc gacgccacag tccatgccag agcgccttct acacctacga ctctttaatc 180  
 gaagccgcca gcaagttccc cggctttggc accaccggcg acgagcagac acgcaggcgc 240

cagctcgccg ccttcttcgg ccagacgtcc cacgaaacca ccggtagatg ggcgactgc 299

<210> 32639

<211> 209

<212> DNA

<213> Zea mays

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<400> 32639

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gagcaagaca cactctgaaa tgatttcacg acgaagcccg gcattctata attagcatcc 120

ttgaaaggat gatggctatc attatcgatg gaagattcct gatgtacgca atcgaccgaa 180

ctatattgga cagactatgt gcactgagg 209

<210> 32640

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A4

<400> 32640

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gagtaaaaca gaatctgaaa agatttcacg aggaagcccg gcattcttta attagcacc 120

ctgaaaggaa gttggctctc attattgatg gtagatgcct aatgtacgca ctggacc 180

ctcttcgtgt tgatcttctt ggattgagtc taacttgcca ctctgatata tgctgccgag 240

tctctccgct gcataaggca caggttacia gcttagttag gaaggggtgct gagaaaataa 300

ctctcagcat tggtgacggt gctcatgatg tgagtatgac tc 342

<210> 32641

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-A5

<400> 32641

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cgtcgaggcc ttacgaccac accaaaatgg tactgccagt gccatcaaag aggaattggt 120  
agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcag gccatgatgc 180  
accgcatggg cagtcttcga cagccaaggg ggacatggaa atcgatgggt gatttgtagg 240  
ttccagagtg gcaagaaagg gaatcccctc taatcattat gtatactgtg gtcagaatgt 300  
ccgctatata ttgtaacatc aaagaaagca ccttcaggcc tganggtgtt actgctaattg 360  
cgtttggttt acttgtnctt gtaatatgca tacacattta gaactcatg 409

<210> 32642  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A6

<400> 32642  
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agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac acctacgacg 180  
ccttcacga cgccgtcagc aagttccccg gcttcggcac caccggcgac gagcagacgc 240  
gcacgcggga gctcgccggc ttcttcggcc agacgttcca cgaaaccacc ggtggatggg 300  
cgactgctac ggattggacc gt 322

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<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A7

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agaaactgct aaggcacctg aaccacatca taagcctaag caactatcta cacctacgac 180  
gccataatgg acatcggaag gacactgacg acgatcagca ccacatgga ctagcagacg 240  
ctcaagcact agctttgcag ataatacgtg ctgacttaca agcaaacgct cagaggatgt 300

gcaactgata tgcgaagacc agctactaga gatactgacc aatgagagac acttgacaga 360  
cagaaccaac ctact 375

<210> 32644

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A8

<400> 32644

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taacaggatg cgcgcacaaa tccttaaaaa acgtagagag cttggtgatg tttgccctca 120  
tgaaacctct aaagcagata aacctcatca taaggataag gaattatcag accgtaggtc 180  
caatattgaa cataggaggg aactgagga cgatgatcag gagcatgagc tacaaaaagc 240  
taaaaaacta tccttgaaga aaaaagggtgc tggctcagaa gcgagtgtg agaggatgtc 300  
caaagcagat gctaatttgc agctactaaa tccagctgaa caagagagac atttgc 356

<210> 32645

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B1

<400> 32645

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atggagtaaa acagactctg aaaagatttc acgaggaagc ccggcattct ttaattagca 120  
cccctgaaag gaagttggct ctcatatttg atggtagatt cctaattgtac gcactggacc 180  
caactcttcg agatgaactt cttggattga ggctaaatcg ccactctgtt atatgctgac 240  
gagtttctcc gatgtataat gcgcaggttt caagcttaat taggaagggt tgctgaaaaa 300  
taactttcaa catcggtgac ggtgctaata a 331

<210> 32646

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B10

<400> 32646

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gcaaggagct caagaacggc cgcctcgcca tgttctccat gttcggattc ttcgtccagg 120  
ccatcttcac cgggaagggc ccgttcgaga acctcggtga ccacattgcc gaccccgta 180  
acaccaacgc tggggcctac cccaccaact tcgtccgagg caagtgagga aggcgcggcc 240  
ggagaccttt atgtgtgcat atgcatgtga gcgcactctg gttttcggtt tgcacatga 300  
tgtacactat tgcacaatcc acaggggaata attgtgcaca tgtgcaatat ttttcc 356

<210> 32647

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-B11

<400> 32647

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cccagctatc ttcttccata tgctgcagcg tcaagtgggc cagttcgcac agccagcagc 180  
gggctgaact atgcagtga cgcgctccta tccatcaacg ttgtgggtggc tctccttgtc 240  
gcgttgatcc ttgacaacac agtgccaggc agcagacaag agcgcgggtg gtacatttgg 300  
acagatccca aatccctcga agtggatcct gctacattgg aaccctaccg attgccggag 360  
aagggtttcc tgctgggttca ggtgggcaaa gtgtgtcggc atctaaaagc tcttangagt 420  
ggcgggtgaag attctattta t 441

<210> 32648

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B12

<400> 32648

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tcttggaagt actcaaccta gcgtggcact ttgaaattac agctacaaat tttggagctc 120  
tagggccatc cttgatttgc tacctgcggc ataatgcctt tcctcaaaga gatctgcatg 180  
actattcagg tgatatcagc catgatcctt tggttgtcaa gttgccgaat attgcgcgtt 240  
ggtatattgc aattgaaact gtcaacaaaa cacagactaa tgttacagca tcaacacctg 300  
ttctagacac aacatgtatc tcattgaaat ggcaattaac tggatgcttg aatggaaaaa 360  
ctggaaccaa ttgctcttgg gaagcatatg gtctccataa gggttcccaa gagatgcctt 420  
ctgtcactta gagtctatca tgttgctact gatggaacag catcact 467

<210> 32649

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H5

<400> 32649

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catgggcaac ggcggtggcg ccaatgttgt cgcgcccgga tacaccaagg gggatggcct 120  
tggcgctgag atcgttggca ccttcacctt ggtctacacc gtcttctcgg ccaccgatgc 180  
caagaggaac gccagggact ctcatgtccc catccttgct ccaactgcaa ttgggttcgc 240  
ggtgttccctg gtccaccttg ccaccatccc catcaccggc accggcatca acccggttag 300  
gagccttggc gccgccatca tctacaaccg ggatcatgcg tggagcgacc attggatctt 360  
ctgggtcggc cccttcacg gcgccgacct ggctgccatc taccaccagg tgatcatcag 420  
ggcca 425

<210> 32650

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B2

<400> 32650

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gcagcaaaac aaggggtctgc gatgattaga agccgaactt acgtactctt taatgcgccc 120  
ccatagctgg aatatggcgt cacactattg aaggtaaatt gctaattgtac gcacaacgac 180  
cgaactgtgg aaaa 194

<210> 32651  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F5

<400> 32651

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tgggcacccg cctggcggac ccggcgccac agaacgggcg catcgtggcc cggttcgggt 120  
tcgggttggg cggcaaggcg aagcctgctc cgaagaaggt ggcaagaca tcgacctoct 180  
ctgaccggcc gctgtggttc cccggcgccg tggcgcccga ctacctggac ggctcgctgg 240  
tcggcgacta cgggttcgac ccgttcgggtc tcgggaagcc cgtggagtac ctgcagttcg 300  
agttggactc gctggaccag aacctggcca agaattgaggc cggcggcacg atcggcaccg 360  
ggttcgagtc ctccgaagtc aagtccaccc cggttcagcc ctacagcgag gtgttc 416

<210> 32652  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F7

<400> 32652

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gggttcggat tgggcggcaa ggcgaagcct gtttcgaaga aggtggacaa cacatcgacc 180  
ttctatgacc gtccgatgcy gttccccgtc gccgtgttgc ccgactacct gtacggctcg 240  
ctcgtcggag actacaagtt cgacccgttc ggtcttagga agcccggtga gtacctgaag 300  
ttcgagttga actctctgta acagaacctt tccaagaatg at 342

<210> 32653

<211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-038-Q1-K1-F8  
  
 <400> 32653  
  
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 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 180  
 aatgagatgc gctgctacta tatatacggg tacgtatgcc cgatgggaag cagagcacac 240  
 gcgtagtacg ctcgctcgtag tagtcaataa aagtttggtt ccatcaccac gtcatgaaat 300  
 aaaagtaagg aggttgcaag ctttgtgtgc gtgcttggaac acgtcgactg tatctcatgc 360  
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 <213> Zea mays  
  
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 agatatcatc gtcgtctccc cagtacgtcc cgaccgggca cctggttcaa ccgggttttg 180  
 gactttggag aggtcgactt tgacgaaaca aatttgccag gaaaccgtaa cagacgcgtc 240  
 atcacatcag caagcagtag gtggaggaag gtaacgcttc aggagatgga tgtgggtgct 300  
 acgagccgcc ttttccctct tctgtctctc ctgctgctgc tgctggcggc gtggcggcgc 360  
 cggcgtctcc tcctctgccg tagccgagct ccgagatctc ccagctcgtc gctggggcta 420  
 cctcctggtg caccgc 436

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 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G10

<400> 32655

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tttgccttat tctcttctgc acacacacac acacacctca tagagcgacc agatcaaadc 180  
aaactataat aacagtagtt ctagtcttgc cattctacat agaaccagct tgctcagacc 240  
tctcggcgca cacaggcaac cgcaccgacg ctgtcgccgc ctcttcctct gcaaagcttg 300  
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<210> 32656

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G11

<400> 32656

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cgcggcgtcg tccgccagcc caccatggcc ggcagtcct tcttcctcgc cgacactgac 120  
gccgtcaggt ccccgcggt ctccgccgat acctattcct ccgcaagccc tttgcactcg 180  
gtccacttcg tcgccggccc gtggggcgcc 210

<210> 32657

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G2

<400> 32657

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tgagctcatg ggtaccaag tcgtgcctt ttctcgtggc tccggcagtg gcctcgcca 120  
ctgccgcct ccagctcacc tccatggaca gagctctggc ttccctgcc gtgtcagcga 180  
tgttcgtcta cgagaacccc atcgatcgtc cggccgagac cattagaaga gctctgtccc 240

gtgcgcttgt tccctactac ccaatggcgc gccgcctcgc cgtcactggg gaccagctga 300  
agctcgogtg caccggcgaa ggcgtagcgt tcgtcgggtgc gtcggcgagc tgcaccct 358

<210> 32658

<211> 434

<212> DNA

<213> Zea mays

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<400> 32658

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cgaagacacc cgccaagccc aaggccaagc cagctgccaa ggcgaagccc aagaccgccg 120  
gcgctaagcc gaagccactt gctaagaagg ccggccgccc cgccaaggcg gcgaagacgt 180  
cggccaagga caccgcaggg aagaaggccc ctgccaaaga gcccgctccc tcgaagaagg 240  
cggcgacccc ggtgcggaaa gcgcgctccc gtaaggccaa gaagtaaagc ggccaagaag 300  
gggggcgcga tgctgtaaatt ttgatatcgg agaggctcgg gtacactggg cattcagtat 360  
ccgagaccga tagctgaggc tagtggcgat ggaggactgt gttattacta ctataaactg 420  
gtggttgtgt ttct 434

<210> 32659

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G4

<400> 32659

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ggcggccaag gcgctcctcg tggtagcgt cctgctcgcc gccaccttcc tcgacggctc 120  
cgctaacgag caagcccagg cggccaaaga ggagaagaag gcggagggtcc aagactggca 180  
cggcggcggc ggctaccgcg ggcacggcgg cggcggcagc ggagggtacc cggggcacgg 240  
cggcagcggc ggcggcggct acccgactg ccggtggagc tgctgcaacc gcgggtacca 300  
tggccgctgc cgggtgtgct cgcaccctga tcagatacca gaacccatgt accgacctga 360  
gctcgtcgag ggccacaact aaatagtaat gagatgcgct gctactatat atacgggtac 420

ctatgccc

428

<210> 32660

<211> 431

<212> DNA

<213> Zea mays

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<400> 32660

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ggtgggcatc cgcgcgagc gtgaccagac ggtgtagaga ctagatagat cggaaggggg 120  
tctaggcata gagagcgagg aggatgaccg gcgttgctgc aggcgcggga gggggcaaca 180  
aggcggcggg cgccacgctg cggctgcacc actaccttgt gatggccggg gtggcgggcg 240  
cggtcgtact cgcctgcctc cggtaacgcg cggaccccg cgggtaacggc ttcctggccg 300  
tggcgccgcg gacagtggag gccgttgctg gtgcccgcg ggacaccact cctccaccgc 360  
gcccgtcgtc gtcgtcgtcg gtggctcatc tcaacttcgg tgactccaac tccgacacgg 420  
gcggcatggc g 431

<210> 32661

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G7

<400> 32661

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gagcccttat acgcgcagag ctacaccata tatcatacat actatatata tccaacatgc 120  
ctttacacat acatatctat aataataacc cccattcctt aacacgccta atccactaac 180  
aacacatcct cctccacact actgcttcac cactaactag ttatctccaa aaaggcctct 240  
ccactaatac tcacatatcc ttgctacag ccacacccc 279

<210> 32662

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G8

<400> 32662

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gatcgtgaag gagctgcgct cgtacgagaa ggaggtggag aaggaggcgg ccaagaccgc 180  
cgacatgaag gagaagggcg ctgatcccta cgacctcaaa cagcaggaga atgttttggc 240  
tgagtcaagg atgatggtcc cagactgcc aacacgactt gaaactgcac tggctgactt 300  
gaaagcaaca ctggctgaac tgaaggagtc aaatgagcaa ggtgccgaga ttggagaagc 360  
tgagagtaca atcgagaag ttgaagcagt tgtcaagcca gcagaagatt aaactaaaaa 420  
aactcttggg ttgctgaac 439

<210> 32663

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-G9

<400> 32663

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cgagcatgcc ggagccgcgg gacagcctgc tgggggtacct ggtgtacaac acggtgatct 180  
cgatcgcggc gctggcgggg ctggtgcggg cggcgctggt gttcctggac ctgcaggccg 240  
cgctgccgcc cggggacgac ggcggagacc gactggcggc gtcgggcccg ggactggc 298

<210> 32664

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H1

<400> 32664

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atgcagcgaa caccaattca ccagttcagc gagcattgtg gctactcttg gatctggaga 120

atctcatgcc tctttatata ttatggatct ttctgaagct gttgacttgg caatcggacc 180  
atggactacc tacagagttc attcacttga tcgaacaatg tggacagctg attgtagttc 240  
tgatggcaca catgcagctt tcggttcgga ccttggtgct ggtctgatcg atttggaac 300  
aaggggatca tcgtgggtat gtcgttctaa aagcgacatt cttccctga aatttggtgca 360  
ctcgggaaaa gttgtgctat gtgggctacg gaatgggagt atagcccctg gtgatgtacg 420  
gcaaaaacag ca 432

<210> 32665

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H10

<400> 32665

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acttggaattt ggagacaagc aggattcacc agcagctgtc acggaggaag aattggctag 120  
acatctgcat cttaaggagt tagacgagag gccatgcatg ttccaggctg gatctgcctt 180  
caatgggacg gggatcaaac atggcggttga ctggttggtg gaaaaaatgg agaggaagta 240  
acgcaccgag gcactaaagg cgcgtacaga agcagctggg aagatttaac acctcaattc 300  
agggctatca cctgtgattt tccaaatgca aagcatctg 339

<210> 32666

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-H4

<400> 32666

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gatgggtang cagcctccac accttttttag ctgactgacg ggagagttac tcctaggcaa 120  
ctcttgtttc tagatttgca aatgggtgtct gaaactctgc gtttgctgcg gcagaacgtg 180  
tacttaattg ttcgtgatag gtctgaataa cacatggatg gtatcagtct gtagcttatt 240

ttttttactt gatccgtttc ttctgtgggt tgtgatttgt gaatgaccaa aagatggatg 300  
ctgt 304

<210> 32667  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F4

<400> 32667

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agaactactt tggagaccat catgacgcta gaagtataca tgatggagga tcaagagata 180  
cttcttttag gagaacaaat catgggcctt ctgtatttgt tatcagtggg agttctctca 240  
gttcagcaaa gcagatgtct cctttatcta ttaacaaagt agccataaac aatgctgcaa 300  
atttgcaaca aatgaagact ggtgattggc gtgttgaggt gtcagttcca aagcagagta 360  
tgatactgct gggtgataat gacgagaagg ggtccattaa agtctgcagc ctaaaagata 420  
caaagagaaa tgcatatg 438

<210> 32668  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D5

<400> 32668

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tgggccatgc tgggcgcgct cggtgcgctc ttccccgagc tgctctcccg caacggcgctc 180  
aagttcggcg aggccgtctg gttcaaggcc ggctcccaga tcttcagcga gggcgggctg 240  
gactacctcg gcaacccag cctgatccac gcgcagagca tcctcgccat ctgggcctgc 300  
caggtcgtgc tcatgggtgc cgtcgagggc taccgcattg ccggcggggc gctcggcgag 360  
gtcgtogacc cgctgtacc tggcggcagc ttcgaccccc tcggcctggc cgacgacccc 420



gaggcctt

428

<210> 32669

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D6

<400> 32669

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ctactacttc tattacaccg ccagtctatc ttccaacccc gagacattca ccaataacct 120  
ctatctttta attatccact cccacttaac catactctac tctctctcct gcatcttccc 180  
ctatcttctc tcccgcgaact tcttctatct ctactaaacc ttctatttca atgccttctc 240  
ccatctcttc atccatacct tatctaacta cctctacaac cccatcotta tc 292

<210> 32670

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D7

<400> 32670

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gagatcattt acctccacgg cagggacgcc tacaccttcg gtgctgacct caaggacctt 180  
gtcaccacac tcttctctcaa gcaagtgtc cctctctaga caatactctg atcacacaac 240  
tagattggct ataacgattc tcgtgttgta ttacgctttg tgtttcatta tgcacgctat 300  
atatatgatc aatgtacctg tttctatcat attgatggta atataatatt ctaaattggat 360  
atagtt 366

<210> 32671

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-E10

<400> 32671

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gtgtgaagag tttccagggt gttttggatg gcaagtatga tgacctccct gagcagtcac 180

tctacatggt tggaggcatt gaggaagtca ttgctaaggc cgagaaaatc gccaaggagt 240

ctgcttcata aggcggcttc ttgcttggtg aatcctgtac aatcaagttc cttttttgga 300

tttaagcgat tgtttatgct tttcgcagtt aggcagcacg agttggaggt ccatctnctg 360

ctgaaatgct ttgttttctc tttgttggtc aaacacttta cacccaaata agcaactgca 420

gtgacattaa ttttggtc 438

<210> 32672

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E12

<400> 32672

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ccaggggtca ccgctgttcc tagggcgaaa gatgacgact gcctcattct tgcaagtgat 120

gggctgtggg atgtagtgtc gaatgaagag gcatgcaaag ctgcgcgtcg gcagatccag 180

ctgtggcaca agatcaacgg tgtcacatca tcattgtgtg acgaggggtga tgaatccaat 240

gatcctgctg ctcaagctgc tgctgattat cttatgaggc tcgcaactgaa gaaggggtacc 300

gaggacaata tcaactgtcat tgtggttgac ttgaaacctc gaaagaaggc caagagcaac 360

tcatatcact gggatggatc catcacggta gagctgacca tgatatgtcc aaaggcttct 420

gctggtacgt tgtggtcgtc cgcaagagac ttgacccac a 461

<210> 32673

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E5

<400> 32673

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aaaaaaaa aaataaaaaa aaaaaaaaaat aaaaaaaaaa aaataaaaaa aaaacaaaaa   60
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aggtctcaga tttacttccc cttacttccct acgcattctc ttttttttat tgccacataa 180
atctattttac ctggcccttt tttaacacct tctcatttgg aaaaaccctg gttttaccca 240
attatattgc ttttaaaaact attccttttt ctcctattac cctaatactg aaaaaccctt 300
tcccgatcga tattccaac attttgcccc cctaaatgcc taatgtgacg ccccttttca 360
cctcatatta atcccatgga tccttcactt tacacctaac cttaccatth cctttgcctt 420
ctccttatac                                     430

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<210>      32674
<211>      434
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3068-038-Q1-K1-E6

<400>      32674

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caagttccga tgctttcaca aagtccaagc accaaggata actagggaat ggaatccact 180
ttggaccoga tcatggactt ggaaactttc tctatgccac caagcatcta ggctatcatc 240
agtctgagca cattagccta gcaccactt gtgttgaaat ctttctctat aaccaagtt 300
atgatgtatt gaaacctttt ttcttatagg tatgagtac caagaggtag cagattatat 360
gaaaagtttg gcaattcggg tttctggttt tgatgtgcca aggccaataa aaaactttga 420
ggattgtggg tttc                                     434

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<210>      32675
<211>      428
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3068-038-Q1-K1-E7

<400>      32675

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 tgggtctcat gctcggcgag ttcgtcgatg actacaccgt cagggtcgtc gacgtcttcg 240  
 ccatgccgca gagcgggact ggggtcagcg tcgaggccgt cgaccacgtc ttccagacaa 300  
 acatgcttga catgctcaag cagaccggca ggccagaaat ggtttaggc tggatatcact 360  
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 aagctttg 428

<210> 32676  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-038-Q1-K1-E9  
 <400> 32676

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 gccgccgata cggtgctctc cgcgggtctc cccccctcg cagacatgca gagccagata 180  
 gtgtgccacg ggtgcaggac ccttctgttc tacccaagag gtgctccgag cgtgtgttgt 240  
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 tg 362

<210> 32677  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-038-Q1-K1-F1  
 <400> 32677

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cacgaaaaaa aacgaatcct tttgtagctc gtcatttatt ggcaaaaatc gaaaagggtca 180  
 atatgaagga ggagaaagaa ataatagtaa cgtgggtccc ggcatctagc attctacccg 240  
 caatggttgg ccatacaatc gcgattcata atggaaaaga acatatacct atttacataa 300  
 caaatcctat ggtaggtcgc aaattggggg aattcgtgcc tactcggcat ttcacgagtt 360  
 atgaaagtac aagaaaggat actaaatctc gtcgttaatt gaattcagaa tagaaagatt 420  
 cagaataaac aaaa 434

<210> 32678

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F10

<400> 32678

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 caccgtcaga ggaaccgtca acaacgcctg ccggattatc gaggtaccgt gaccgcgtacg 180  
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 atcctgcaac ggaaagacga agggaggcgg tcaatgaatg gagaagaaga atatatataa 300  
 taaaaaatca tctgatggcg ttgttcgttc tccgtgtttc aagtgcggag ggacttgggc 360  
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<210> 32679

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F11

<400> 32679

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 gcttgcttac cggccgccgt ggcggtcgac gaggagcacg gtcaccacag ccaccagctg 180

aagggaggag cgcatgagga ggctgagaac gacaataagc cggagctccg gcgtggcccc 240  
 tggaccgtag acgaggacct caccctcgtc aactacatcg ccgacaacgg cgaggggtgc 300  
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<210> 32680

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F12

<400> 32680

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 cgggtgtgtg ggtgagccga tccagacggc gacgtccaat gtcgagtacc gctgcttctg 180  
 aagcgacctg cgctggacca cggtcgaaca ctcaatacac aacaccttca gcacctaccg 240  
 tgaagcgctc acgtggacga taatcctgga tacgtacaga cgcagacaga cccgaggggt 300  
 cggttgaact aaccttgtcc acgcaggagg gctaacgcag acggcctcga tgtcatcaac 360  
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<210> 32681

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F2

<400> 32681

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 cacatctaca tcaaaaaaat gcaccttaat tacgacaata taacaactgt aacttgatcc 180  
 cgttccatat aacattacac ctcaaccatt aatgcataac cataacattc attataacaa 240  
 agatcatcaa cctatttctt ttacaaatcc tacagtacat cacctcataa gaccaatccc 300  
 ta 302

<210> 32682  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-038-Q1-K1-F3  
  
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 agtttacaca taagaggcca ctctttaaca tgaaaaaaag gaataatcag ctctgacaca 120  
 aaataaaacg aacccttttg taactcctca ttcattagca aaaactcaaa aaagtcaata 180  
 tcaatgacga gaaataaata attgcaacgt cgtccctagc atctaacatt ctacccccaa 240  
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 atcctatggt atatctc 317

<210> 32683  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-038-Q1-K1-D4  
  
 <400> 32683  
  
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 gctgcggagg cgggtacgac tacgaggacg tcggcggcgg gcccgggcag gccggcaagt 180  
 cgtacagctt caacggggcg agcgggccgg acgacccgga ggccaagcgg cggcgccgcg 240  
 tggcggcgta caacgtgttc gccacgcagg gccggatcaa gaccaccgtc cgcagcagcg 300  
 tcaagtggct caagtccaag ttctccgacg tccgctacgg tggcctctga actgatctga 360  
 tgagcctact gcatgcaacc catcctactn ctacgaccgc acacatatat gtgtatgcac 420  
 gaacatgat gtcata 437

<210> 32684  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B7

<400> 32684

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ggacccaatc tcgtccgacc cggcgcgtcg tcccctccag atctccgtcg cctctccag 120  
gtagcagaaa ctgttctgct tcagtctgac aaagtggagg gcttaggagt ttctgcttct 180  
tttatgtctg aacaatcttt gctttatttg ggattgttgg gagagtactc tcgtgcaacg 240  
aggaaaaggc acaaggttcc gttccactgc atgcgtcaag agcctgtctg gttttcttgt 300  
tctgatttgt catttgctgg tgctcaaagc cggcttgggt tcctcgaagg atcagcatct 360  
actcttgatt gtggactttg tcgcatctga tatcaacttc ataaatcttt atccaagatg 420  
gcgctgca 428

<210> 32685

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B8

<400> 32685

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tccggcgccg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180  
ggccgtggcg aaggtggcta caacaagtcg ggccggcgatg acgactacgg ccgcagcggc 240  
ggcgatgggt acggcaggtc cggcggcgac gactacggcc gtggcaccgg cggcgggtggc 300  
tacaacaagt ccggcggcgg agacgactac ggccgcagcg gcggcgacga ctacggccgt 360  
ggcaccggcg gcggcgggta caacaagtcc ggagacgacg gctacgacag cgggtacaac 420  
agatcgggca ccacc 435

<210> 32686

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B9



<400> 32686

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ggcctcctgc tagctcccg tggaaacgct cccagatccc agacgcagcg cgctacccca 180

cgcgagcgaa ggccggcgcg cgacatggga ggggtgccac cgaagccgct caccgaggac 240

gcggaacggct cgccgccgca cgccggcgccg gcgaccccg ccccgggcaa cgctaccccc 300

ggccccggga agaagcactg ggccgtgtcc ccgttcttcg cgttctccac gccgagcccc 360

agccccgcgc accacctctt cggcggtctc gcggcgctcg cgcgcaagtc ccccgctccc 420

ccgggc 426

<210> 32687

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C1

<400> 32687

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gctccgactt ccccatccag aacctgccct tcgggggtctt ccgccggcgg ggggtgcagg 120

cgcagggcgc gcgccccgcg gtggccatcg gggacttcgc gctcgacctc gccgctgtcg 180

ccgacgcggg gctcttcgac gggccccgcg tctccggctc cccgtgcttc caccaggaga 240

cgctcaacat gttcctgggg atgggcccgc cggcgtggag ggaggcgcgc gtcacgctac 300

agaaaatcct atcagccgac gagcccgtct tgcgtgacaa cgaagcgctg aggaacaagt 360

gtctggtacc aatgagtgat atagagatgg ttctaccaat caccggttga ggttacacgg 420

acttctt 427

<210> 32688

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C10

<400> 32688

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 tgctgaggct caactgctga tccgtcttcc aagctctggt atcatccctg agcactgatt 180  
 taagatgtat ctccagtact acatcaacga gaagggggac aaggtctaca ccaccaagaa 240  
 ggagtcacct cttgggggtgc caacgcagtc tgctcaccca gctcgggttct cacctgatga 300  
 ccagtactct cgccaacgat accctgttga agaagagaat tggacttctg ccaacgcaaa 360  
 atcaagaacc gaatacctga acttcaaagc aactggccca cctggcaagg tccttttggg 420  
 gc 422

<210> 32689  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-038-Q1-K1-C4  
 <400> 32689

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 aattgcatg ttccatggaa gagaatgata atgctaggag ttatgtttct gaaagcaccg 120  
 ccactccttc cttttatggc acaaatcaat cttatacagc cccagaccat tctcagaatg 180  
 tttaccaggt acctcagcca tacaatgtac caagtaatac atattcagaa gcttaccac 240  
 aacaacctac tggcgctat ggatacaaca acacatatca acctcaacaa ccaaccata 300  
 tgtttgttcc acctagcgcc cctgccagct ctgagcaaca gccaggctct tcacctgtac 360  
 cagtgcctca gcaaacagtg aaagcattta ctctgcgaa cccagttggt ctaaaaaatc 420  
 cgggacaata tcagca 436

<210> 32690  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-038-Q1-K1-C5  
 <400> 32690

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gctgctccaa tggcgcgctt ccagctcgca gccgtggcca tggccatgct cttcgccgcg 120  
 gggggggcgc agggccccgac cgccacccccg acgccggctc ccaaggcgtc cccccgcgcg 180  
 ggcagcgccgc cgccgacccc cgcgccggtg tctccgcccc tgccgtcccc gaccatgcct 240  
 cctccggcgc ccgccccgt cccaaggcc ccggccccgg cgcccgaggc cccacccccg 300  
 gcacccacgg tcg 313

<210> 32691

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C6

<400> 32691

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 cctcaagcat gatggccaag tgtgacccaa ggcacggaaa gtacatggct tgctgcttga 120  
 tgtaccgcgg tgatgttgtt cctaaggatg tcaacgctgc agttgcaacc atcaagacca 180  
 agagaactgt ccagtttgtg gactggtgcc ccactggatt caagtgtggc atcaactatc 240  
 agccaccctc tgttgtccct ggagggtgacc tggcaaaggt ccagcgtgcc gtgtgcatga 300  
 tcagcaacaa caccgcccgtt gccgaggtgt tctcacgcat cgaccacaag tttgacctta 360  
 tgtacgccaa gcgcgcattc gttcactggt atgtcgggtga gggatatggaa gagggtgagt 420  
 tctcagaagc ccg 433

<210> 32692

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C7

<400> 32692

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 gacacctatc taggtccacg ctcatgcaca cttgtatgct gattatataa tgtctcctat 120  
 agttacacct actgtccatc gatttacacc tcgttttact gcgaaatcac tggcaaaacc 180  
 catgttaatc gcatcttaat acatcttgca tttcatcatc tgtttgtact acctg 235

<210> 32693  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-038-Q1-K1-C9

<400> 32693

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 taatgggngc ggggtccatcc ctcttctagc tcgtttcatt atccatggct gaggagaagc 120  
 accaccacca ccacctgttc caccacaaga aggacgagga gcaggccgcg gccggcggggt 180  
 acggcgagtc cgccgagtac acggaggcca cggtgacgga ggtcgtgtcc acgggcgaga 240  
 acgagtacga cgagtacaag aaggaggaga agcagcacia gcacaagcag cacctcggcg 300  
 aagccggcgc catcgccgtc ggcgccttcg cactctacga gaagcacgaa gcgaagaagg 360  
 acccgagca cgcgccacgt cacaagatcg aagaagaagt 400

<210> 32694  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D1

<400> 32694

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 cgttcgtgga ggtgccggcg ggctcggact ttcccatcca gaacctgccc ttcggggctct 120  
 tccgccggcg ggggggtgcaa gcgcatgcgc cgctccccgc gggggccatc ggggacttcg 180  
 cgctcgacct cgccgctgtc gccgacgcgg ggctcttcga cgggcccgcg ctctccggct 240  
 ccccgctgtt ccaccaggag acgctcaaca tgttcctggg gatgggcccgt ccggattgga 300  
 ctgaggcgcg cggtagccta caaaaaatcc tatcatccga cgagcccgtc ttgcgtgaca 360  
 acatatcgct gaggaacaag tgctc 384

<210> 32695  
 <211> 458  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-D10

<400> 32695

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gagtagcatc gtagcatgca gttggcagac atgaacaccc cggggcaaag cctggaggag 120

gtgatggcga tcatccagga ggcgcggaag ccaggggacg ccatgaacct tgccgggcag 180

ctgccctgcc tggggagcgt ggaccttgac gacattgatt ttgacgatat tgacgacatc 240

gacactgaga acagcggcga cttcgtttgt gcagtgtgac tgtgtgaggc tcagcagggc 300

aggagctagc ttcctttgat cgttggtgtc tgtagatcct tgttgtgcta tgcttncatt 360

cgttcctgga tcagatatgt tgttgtgtaa ccgagaaaat tggcggttgot gtggacaaca 420

taaacagacc cataaactta tgcggaaatc taccctccc 458

<210> 32696

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D2

<400> 32696

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gatgataagt atcggtttga aattaaggat attcttgaaa tggaaatgaa gctcctggaa 120

gctctcgact attatttggg tgttttccat ccatatcgtc ctctcttaca gttgttgcag 180

gatgctggca taacagacct gacacaattt gcctggggcc ttgttaatga tacatacaag 240

atggacctta tctcatata ccctccctac atgattgcac tggcctgcat atacatagcg 300

agtgttttga aagataagga caccacagca tggtttgaag agctccgtgt tgacatgaac 360

atagttaaga atatctctat ggaaatatta aacttctatg acacctacaa gattgatcct 420

caaaggggca 430

<210> 32697

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D3

<400> 32697

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gtggtggaca atgagctatg ggggtaccaa gttggcttat tcggggaaag gaataacatc 120  
tacacacaag attcaaaaat tactgaatgg acaagtatcg acaatttgac atatagccca 180  
cttacttgac tacatthttcc acaccagtgg gaagtgacgc agtgacactg aaccttagtg 240  
gtatgggtaa ggggtgaagta tgggtcaatg gagagagtat cggacgatat tgggtctctt 300  
tcaaggctcc tagtggcaat ccttcgcaat cactgtatca cataccaaga gaatttctaa 360  
accctcaaga caatacccta gccctthtttg aggaaatggg aagtaacca cagctaataa 420  
cagtgaacac aatg 434

<210> 32698

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B6

<400> 32698

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gatgctgctt acagagctgc acttgaagct gatcaggcca gggaacgtga aaggttagag 120  
gaactggaaa gacgtgaaag agaggctgca gaggtgaga aaaagcgtaa agaagaggag 180  
gaagctgtag caagggcatc ccaagaagca gctgagaagg aagctgctct tgcaaggagg 240  
aggcaagaga aggccatggc tcttgagct gaacctgaga aaggaccagg tgttactcgg 300  
gttctcataa gattcccaac tggagagcgc agagagcgga gattctacag ttctgcaacc 360  
gtcgcttccc tctatgacta tgtcgattct ctagactgca tgaaagcgga gacgtacacc 420  
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<210> 32699

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-G7

<400> 32699

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gcgggcccagc tgggtgactct cgggctatca ctctctcgcg ctgtcgccgg cccgggcccgc 120  
gcgcgagaact gcgggtgccg gccaaacgta tgctgcagca agtttggtta ctgcggcacg 180  
accgacgagt actgcggcga cgggtgccag tccggcccgt gccgctcggg cggcggcggc 240  
agcagtggcg gcgggtggtgc gaacgtggct agcgtcgtca ccggtctcctt cttcaacggc 300  
atcaagagcc aggccgggag cgggtgcgag ggcaagaact tctacacccg gagcgcgttc 360  
ctgagcgccg tcaaggcgta cccaggcttc gcccatggcg ggtcgcatgt gcagggcaag 420  
cgcgagatcg ccgntctctt cgcgcacgcc acgcacgaga ccgggcat 468

<210> 32700

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H1

<400> 32700

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caggtgaagg acgggacgtg gggcgagcag ggggtggcca aggtgtggac ggactactcc 180  
gtctccaagc tggccctgaa cgcctactcc cggctgctgg cgcggcggct ggaggcgcgc 240  
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ggctggggga agcgcaccgc cggcgaggcg gccgacgtcg gggcgcggtt cgcgcttggt 360  
gccgccaccg agcttccac ggggaccttc ttcaagtggc gcacgccgca gctatactct 420  
aagctgtgac tggctctggg ctctggcttg cttgctagct gagctgtcgt ccgtcgg 477

<210> 32701

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H11

<400> 32701

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cgtcaaccaa aggtccctcc aaagcagccc tccagcgatg cctctcgggc agctggagag 180

atgcaggtga atggtgcttc aagtgcacga cgggatgctg tgactgaggt tctgtttaat 240

agtgtacca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300

gtgaaaaacc gagaccagcc aagaactggg aagcaatcta agagagattt ggggtttctg 360

gtacatacct gggtttgtca tacatttctg aataacatgt gtcaaacag catgacgaca 420

acat 424

<210> 32702

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H12

<400> 32702

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tttgagagaa gcggtaaagg gtgacactat ggatctgaga gcagccactg agattatatg 120

ttccaggaca ccatcacagt tgcaaataat gaaacagact tattatgcta gattcggtag 180

ttatcttgag catgacattg ctcaccacac atccggtgat caccagaagc ttttacttgc 240

atatatgggg attccacgct atgaagggcc cgaggttgat cctacaaatg tgacacatga 300

tgcaaagggt ttgtacaaag ctggtgagaa aaggctgggt acggacgaaa agaatttt 358

<210> 32703

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-H2

<400> 32703

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accccgcat ccccgaccgc atggcgccca aggcggagaa gaagccagcg gagaagaagc 120



cggcgggccga ggagaaggcg gagaagacga ccgcagggaa gaagcccaag gccgagaagc 180  
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 ccaagaagag cgtggagacc tacaagatct acatcttcaa ggtgctgaag caggtgcacc 300  
 ccgacatcgg catatcctcc aaggccatgt ccatcatgaa ctcttcatc aacgacatct 360  
 ttgagaagct ggccggcgag gccgncaagc tggcgcggta caacaagaag cccaccatca 420  
 cgntccgcga gat 433

<210> 32704  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-037-Q1-K1-H4  
 <400> 32704

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 tttggctatg ggatcatgct tctggagctt attactggcc agagggcatt tgatctagct 180  
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 aagaagggtg agatgctggt ggaccagat ctgcagaaag cctacgagga ggtcgagggtg 300  
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 atgtcngaag tggtgaggat gctcgaaagt gacgggct 398

<210> 32705  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-038-Q1-K1-A12  
 <400> 32705

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 ggtcagcagc ggcgacgcgg agcgggagcc ctccgtgttc tccaagatca ccaggttcga 120  
 ggaggagctc cgcgcggtgc tgccccagga ggtggaggcc tgccgcgtgg cggtcgccga 180

gggcaccgtc cccgtggcga accggatcgc ggacagccgg tcgttcccgc tgtaccgctt 240  
 cgtgcgcgag gagctcggct gcgtgttcct gaccggcgag aggctcaagt cctccggcga 300  
 ggagtgaac aaggtgttcg tcggcatcag ccagggcaag ctctgtggacc ccatgctc 358

<210> 32706

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A5

<400> 32706

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 ggctgatctc tgcacccggt tgtcaaaccg ggccacaccg actcacctgc acgtaccgcg 180  
 acggaccgcc ggctgtcgaa ccggtatcgg ggacagcacg gtcggtgacg ctgcaccact 240  
 tcgtgcgcta ggagcttggc tgtctgatcc tgaccagatc agaggctcaa gtccttgggc 300  
 gatgagcgca atatggtgtg gcgcggcatc agccagggca agctcgtgga ccccatgcta 360  
 gagcgctca aggagtggga cggcaagccg ttgcccatca acatcgagtc aaagaacgcc 420

<210> 32707

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A8

<400> 32707

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 ccgcggggag gctccccgga tacggcctga ccacgaacat catcaacggt ggtctagagt 180  
 gcggcgagga ccgctccacc gacggcgcca aagccgcaa ggaccgggtc ggctactaca 240  
 agaggtagtg cggtagctc tgagtgggt acggggacaa catggcatgc gggagccaga 300  
 agccttacgg aggatgatga cactagtagc tgatctatgg ttgctgcaat gcaagccttc 360  
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gtgtgtctac tt

432

<210> 32708

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B10

<400> 32708

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gggaggggtgc cacgcgaaac cgctcacgca ggacgcggac tgctcgccgt cacacgctgc 180

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gtccccgttc ttcgcgttct cca 263

<210> 32709

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32709

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cactttgatc atgcagctcc ttcgtgataa cttgacccta tggacttctg acatctcgga 180

ggaccctgct gaagagatta gggaggcacc caagcgcgac tcgagtgagg ggcagtaaag 240

ccggctttat gtgcctagaa actagtagct agtgtttgct gctgtcgaat gacactatgc 300

aatgtgatct ggaacctggt ttcttggtg cgacgcttgt tatgactgtc gtcagtaaaa 360

tttgggggct ccccgatatga gatgctgccg ggcaaggcct cgggtgtcca ccttgtttgt 420

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<212> DNA

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<223> Clone ID: LIB3068-038-Q1-K1-B12

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cagcactttg atcatgcagc tccttcgtga taacttgacc ctatggactt ctgacatctc 180  
ggaggaccct gctgaagaga ttagggaggc acccaagcgc gactcgagtg aggggcagta 240  
aagccggctt tatgtgcta gaaactagta gctagtgttt gctgctgtcg aatgacacta 300  
tgcaatgtga tctggaacct ggtttcttgg gtgcgacgct tgttatgact gtcgtcagta 360  
aaatttgggg gctccccgta tgagatgctg ccgggcaagg cctcggtgtc ccacctcggt 420  
tgtggcgggg ggcgctggag cccggtctgg ttgg 454

<210> 32711

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-B3

<400> 32711

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cgtgagcctg gccgtggaga tccaggccga cgccgggtac ggttacggcg gcgggtacac 180  
cccgacgccg acgccggcca ccccgacccc gaagcccag aagcccccca ccaaggggcc 240  
gaagccggac aagccgcca aggagcaca gccgccaag gagcacgggc ccaagccgga 300  
gaagccgccc aaggagcaca agccgacgcc ggccacgtac accccgagcc ccaaaccac 360  
gccgtcgacg tacactcca ccccgacgcc cccaagccg acgccacca catacacttc 420  
cgccctacg cc 432

<210> 32712

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B4

<400> 32712

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tattaaacaa aaatttaatc aaaatatata aattaaa 157

<210> 32713

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B5

<400> 32713

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cgcacattca tacagggtcg atacctaact tatcacttca catcaatgac taatactgac 120  
acatcacttt acatcatgca tcatctctta aagataactc tactcctata actctaactg 180  
acatctccag acaatccctc tttaacatat tatcagatgc tacccaaaca gccactctac 240  
ctgatcggcc attaaatccg tctcta 266

<210> 32714

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G5

<400> 32714

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ctggagagat acaaagctca gtataagtgc ttgtccttgt aggtgttgct gtatgcacag 120  
tactgatgt tagtgtgaac tctcaagggt tactagctgc agtaatagct gtttgagca 180  
cagcactaca gcagcattat gttcaccacc ttcaatggaa gtactcgctt ggctcattca 240  
acctcttagg ccatactgct ccagcccagg cagcatcgtt gttagtattg ggtccttttg 300  
tggaacttctg gctgaccaac aaaagagtcg atgcttttaa ctacacatca atagttacgt 360  
tctttatcgt gttgtcgtgc ataattgctg tcgggaccaa cctaagccag ttcatatgca 420

tcggaagatt cacggtcg 438

<210> 32715

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D4

<400> 32715

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<210> 32716

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-D7

<400> 32716

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gtgacgaggg gaggggaggg gaggaggag ggcaggcggg ccgacgaatg cacagtcccc 120

gagaatattg gtgaagcaat aacttgatat tgggttctag accaaagaag caatggaaaa 180

ggaatcatct gccacatacg agccaaaaag gaacagtgaataaagggttt ttgagagttc 240

agatgagatt tcaacggatc ttgctgagta tatctcaciaa gtttcagaaa tttctgtcaa 300

agaaagggga tactttgcca tcgccttatc tggagggtccc ctagtacagt ttttggggaa 360

actttgtgaa gctccataca acaagacact ggattggtcc aaatggtaca tcttctggtc 420

tgatgaacgt gctgtggcaa aaaaccatgc atagagtaac 460

<210> 32717

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D8

<400> 32717

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<210> 32718  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-D9  
  
 <400> 32718  
  
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 ctgatctca ggcgcaccct taccacccgc caccagatgt gtacccgcct cccctcggg 120  
 gccatggaca tccaccacca ccccatggcg tgtaccgcc gccgccgcag ggctccttacc 180  
 cccaccaca gcagcctcca cgggggtacc agggctactt caacgaccag cagcgctcctt 240  
 actaccgcc gccgcatgga gagcatcaac acaaccacca ccagggaaac cagggtagct 300  
 cctctgggtt cctcaaagga tgtttggctg ctctctgctg ctgctgcgtg ctggaggaat 360  
 gctggcgctg cttctgagac gtgagat 387

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-E11  
  
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 gaaaaaggag attgatatgg aattagttgc tggtaaaaag atagtatctg aagctctcaa 120  
 aatatcattg ctgtctgacc ccagagctat ggatgcaaaa ggtgagaatc gtcttgaaga 180  
 ggagccagca gaaaacaact tggttggaat tagagatgct cgattgaaag agcgggtgcac 240  
 caagactgac tccatgacag tcaaagtga acctgccaaa gcagaggcga tggaatgttt 300  
 agagaacagt agttttggca gttcggaat ggatctttca gcagtgaag ggaaatcaaa 360  
 acccaagaca gaaaaggtg 380

<210> 32720  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
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<400> 32720

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tacggttacg gcggcgggta cccccgacg ccgacgccgg ccacccccgac cccgaagccc 180

gagaagcccc cc 192

<210> 32721

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<212> DNA

<213> Zea mays

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<400> 32721

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cactagatag gtgacccaat aaggcaataa tgaacccatg gtcggagtag tgggtgtcatt 120

acatgaacat aagttactat ttaattagca tggagaatag aaggtggcga tcatttcctt 180

agtcctctgtt agtgtccctg aacataagtt acccatggtc tgagatgtta catctttctg 240

agctatcttc tctcggtttg tacttctgtt agtgtccctg gcaccatata attcatttgg 300

agatattcaa tcagctgtgt ggctatgtaa aattggttgg attttaagtg atctgtgagc 360

attaactttc aatgtaccaa aaatcgatct taatatatga gatggattat atgggg 416

<210> 32722

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E4

<400> 32722

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ctgcaatgct agaagaaagg tatgcttgct cttccaatgt tccactgcat tcgtcttggtg 120

ttaatttctg tcagtatcat tttctctcgt tttcatcttg ggtttttggc cctgtttggc 180

acagcttatt ttcagcttct tcacaaatth aagcagaagt tctgccaac agccagcttc 240

tacagcagct tattagttca gctgcttctc agaatacact aaaagcagcc aacaagcaga 300



agctgccttt caccagcttc tcagataagc tgctttttca acaagcagca gttgtgccaa 360  
acaaggcctt ttaatgtaca tataatgtgt gggatggtaa gatactagca tgctaccttg 420  
agccttgcca ttttcttagc atatctggac aggccttggtt atttc 465

<210> 32723  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-037-Q1-K1-E5  
  
<400> 32723

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tgggtctccg cccaacacgc tcacggagcc ggtatgggac accatcaagc gagacttagc 180  
acgcacgtc agcaatctca agctcgtcgt ctccccaat ccctaccgcy aggaccccg 240  
caaggcgctt agggactggg acctgtgggg tcccttcttc ttcacgtct tcttaggcct 300  
cacgctctcc tggtcggctt ccgtgaagaa gtctgaagta tttgctgttg cattcgcgg 360  
cctggcagct ggtgctataa ttctgacctt ggaatgtctg cttct 405

<210> 32724  
<211> 125  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-037-Q1-K1-E8  
  
<400> 32724

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tacggctcga agcaaacgat cctcaggctc tcaactgtccc acccgatttc cctcccggtt 120  
atttc 125

<210> 32725  
<211> 387  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-037-Q1-K1-E9

<400> 32725

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gtacgagacc acgtcgttcg ttcagatcga gggggtgaac accaaggagg acgtcgcgctg 120

gtacgctggc aagcgcatgg cgtacatcta caaggctaag accaagagca gcgagacccg 180

ctacaggtgc atctggggca aggtcacccg cccgcacggc aactcgggcg tcgtccgcgc 240

caagttcaag tccaaccttc cgctgagtc catggggcgc aaggtcagag tgttcattgta 300

cccgagcagc atctaagggtt aggttttttg tgaagtaaaa gtggactcca aatggccatg 360

cttattttctt ctctctgagc ttaaaat 387

<210> 32726

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-F10

<400> 32726

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tctgtgatca ctggagccac caaagaaagc cagattgtgg agaacatgaa ggccctagat 180

gtcatccac tgctgacgcc ggaggtcgtc gacaggatcg aggcgggtgg ccaaagcaag 240

cccaaagcga acgtcgagtc atacaggtga aaattcgggtg ttcattccgac ggagttcagg 300

cctnctncac gaaaactcat ccatgatccg ggtgtattct gggcggtggg ctgtgttcac 360

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<210> 32727

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F12

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gcggatgggg gctggcgacg cgcaccggcc gtatgcggaa cggctcctgc tggtcgcgcg 180  
atcggctcgg ggcgtggacc gttgtcgccc gcgccggcag ccgtcgtcgg cgcggaacggt 240  
atccgcgcgc ctatggcgcg cccctcggag cgcttcgccg caacggcctg cgagctcccc 300  
atccgacccg tcttggaaaca cggaccaagg agtctgacat gcg 343

<210> 32728  
<211> 185  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F2

<400> 32728

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aaaaaaaaat atataataaa ataaaataat atatattaac tttttataat tttttaccta 180  
tttaa 185

<210> 32729  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F4

<400> 32729

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gctgccgccg ctgggctgcc tgccggcgtc gatcacgtg ttcgggcacg gcgccgccgg 180  
gtgcgtgtcc aggctcaaca gcgacgcgca gagcttcaac cggaagatga acgccaccgt 240  
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gctgtacgac ctggccacgg acccccagtc gcagggttc gcggaggccc gcgggggatg 360  
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 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-F6  
  
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 ctgatgttag tgtgaactct caaggggttac tagctgcagt aatagctggt tggagcacag 180  
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 <212> DNA  
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 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F8

<400> 32732

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ccgaaattca tacaatattg tgtgctaaaa aaacaacaaa ga 162

<210> 32733

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D12

<400> 32733

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tcctgacgat gacatgggca tctcatcctc tgcgtgggta gaagtagagc gtcaagaact 180  
agaagtcact gtttcgagtg aaaatgtagt tgttgaagat gtaacttctc caagaattgc 240  
accattgccg tcatcaagcc caagaatgcg tcattcgggtg gcacaaatg 289

<210> 32734

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G11

<400> 32734

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gccgcggtgc tgctgctggc aacggcggcg acgacctcgg aggcgcgcat tacctgcggg 180  
caggtgagct tcggcatctc gccctgcctc tcctacgccc gcggcacggg gtccgggccc 240  
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ggcaac 366

<210> 32735  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-A8  
  
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<210> 32736  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gtgcaccagg ccgacaaggt gaacgagaag accgtgcagt gcacgggacc cgnncggcag 360  
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 a 421

<210> 32737  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-B3

<400> 32737

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caggaggctg caggccgcgg cacaacggag ggcgtcctcc gtgaacgtcg agctccggcg 180  
ttctccgagc tcggcctgcg tcgagtcgct cacggattgc cagtcggact gctccgactc 240  
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caccaggaca gcgagcctcg tggccgcgga catcgacgtg atggacgact tcctcgagat 360  
ggagaagctc gccttcgga acggctcgtc gaaaggcgac gccgtcgagg acgcgagcgg 420  
gc 422

<210> 32738

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B4

<400> 32738

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gctgctgcta tacgtcaacc aaaggctcct tcaaagcagc cctccagcga tgctctcttg 180  
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<212> DNA

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<400> 32739

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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-B6  
  
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 cgccgctggg tgccccctca gcctccaggt gttgcgatgc cagaagcagc tgctgctata 120  
 cgtcaaccaa aggtcccttc aaagcagccc ttcagcgatg cctctcgggc agctggagag 180  
 atgcaggatga atgggtgcttc aagtgcacat ccggatgctg tgactgaggt tcctggtaat 240  
 agtgctacca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300  
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 <213> Zea mays  
  
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 ggttggagta gtttctgttg ctatccggca ccaatggcga ctttggttcg tcatgattca 360  
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 gaaaatctca gc 432

<210> 32742  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-B8  
  
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 aatgagcttg caccacagct tgttcagctc tgttttgccg tattgggcat gtggagggtca 180  
 atgaaccatt tccatgagat acagaatgag attgttcagc aagtcctggg tctggtggac 240  
 agtcccatgg ccgagtcaac atctgacctc cacaggcttg caactcgtga ccttgaagct 300  
 gctgttgccg cgtggcactc caacttcgac cgcctcatca agtatcagcg cgaatacatc 360  
 cgctctctgt atggctgggt gaagctcaca ctctgccagg tggatagctg tgtgccacag 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-037-Q1-K1-C12  
  
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 gttgttcaac ttcaagaagg atagggatgg ctattggaag tggtttgctg gcaacctggc 180  
 ctctggtggt gctgctggtg ctctcctcctt gttttttgtg tactccctgg actacgcgag 240  
 aacaaagttg gctaatacgc cgaaggctgc caaaggagga ggtgaaaggc aagtcaatgg 300  
 gcttgtcgat gtctaccgca agacactcaa gtctgatggg attgctgg 348

<210> 32744  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 32744

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tggatcgatc cgtgcgcggg ctcggtccgc cccgggttcc gatctggtcg ccgcctcgcc  180
tgaggagatg aacggcgccg ggggcagcca ccaccagcag cagcagaggc tccggcagca  240
gcagcagcag gcgctcctga tgcagcaagc gctgcagcag cagcagcagc agcagcagta  300
ccagtccggc gtcctcgccg ccgcgggggc ggcgggccatg acccagatgg aacctggttc  360
caatggcaac cttncacctg ggtttgatcc ttccacttgt cgcagtgtgt atgttggaag  420
tgtgaaccct aatgtcacgg agagcctttt gattgaagtt ttccag                    466

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<210> 32745  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C4

<400> 32745

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tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc  180
tgctgagctg ctgctgctcc tcttggtcga ccatcagttt gtatttgctc atgcctcgtg  240
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gcgtggacag agaccggcaa gtcagagatc ggcaatagtg agctccagca ggagcctact  360
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gtttcttctt gtctgttccc t                                     441

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<210> 32746  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C6

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<210> 32747

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C7

<400> 32747

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tttccggagt tggatggcac tgtgaggaag tggcacgaag ataaagagca attctgcgcc 180  
cagtaatgtt tatcaaacgt ttgaatttgt cacggggcgg tgtttgtttc caacacatat 240  
cgtctttcca gagtgggtgtg gcctgtgaat tctgcgaaaa taagggtggtg gcttcagagg 300  
agtgcccggtg gatattctcag tttgaagtgg ggtggtggct ttgtgcagtg tgaatatggt 360  
tagatagtgc gaggatatgg tccctttttc caccgggcca tggcagaacg gtttttgtgc 420  
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<210> 32748

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C8

<400> 32748

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aatgagaact ttaggagatt tatgttagag tcggacaact ttaggcgtta tgttggtcgt 180  
gtacctctgc gtctgtctcc accatacaat cctccgccgc ctatgccccg cactctggat 240  
cagtgggttc agcagacata tgggtgttctt ttcgacgaag atatctctga tgatgaggaa 300  
gaaatctctg atgatgaaga tgagtccttc tgggtgaacat ggtcattatg gtggcttctt 360

cttcttcttg gttcttggtg ctaaaagga gagaagttcg tgacatttga tctagtcttt 420  
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<210> 32749  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D1

<400> 32749

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 cctaccgagg cgacagccgc tctactacg agtggagacc cgtcgagatg tccatgcatg 180  
 ggcgctgcct aatcggagaa gccgagctct ctgtcgaccg cggaagcctc gcgcttggaa 240  
 actactgcta ctcagccaag gtcgcctacg tagtctaagg cacg 284

<210> 32750  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-037-Q1-K1-A5

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 acccaagaat cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtatc 180  
 ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240  
 tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300  
 aggccaaaga ggtcaacacc ctgatcagac ctgatggana gaagaaggct tacgtgaagc 360  
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<210> 32751  
 <211> 216  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D10

<400> 32751

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gacgttgatc aacttcgcca atgatagga tgcctatagc aagtgggaag ctggtgacct 180  
ggcctttaca ggtgctgctc atgcttactc tatggt 216

<210> 32752

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D11

<400> 32752

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gaataaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120  
aataaaaaaa a 131

<210> 32753

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F6

<400> 32753

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tcgacatcaa cccggggcag ctcaagtgtc gcaccaactg caacttctcc ttctcggggc 240  
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ccgtgcacgc cttctactcg ggcaacaaca agttcagggtg caccgacacc ttctcgggca 360  
tgtgcggccc caagtgctag atcagagaag aagaacgcgc gctgctgcta gctgctatag 420  
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<210> 32754  
<211> 474  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 32754

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ctgggcgcg gacgaacacg aaggccgcgg gatttccacc tctctcacgc ctgtctccga 300  
ccacctcact ttcccccttc gcgctcgccc tcgctcgac ccactctggg tagggcacgc 360  
ggcgacattc actcgctcggc ttaaggaccc cccggtctcg aaacaccgac accagtggac 420  
ttgttaaaga ctctatatgc ccttgngttt gaatcatacc caagtaaaaa gcct 474

<210> 32755  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F9

<400> 32755

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tcttgcttat gtgcatgtga ttgtgtacgg ccattggttt gaaagttgtt atcggatatg 180  
gttatcctcg gtgtgtgggg tcttcataaa ttgcatcaag aat 223

<210> 32756  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G10

<400> 32756

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ctcacggtgc cccttctgcc gcgcccgtt ggacgccggc gccgcccgcg acggcgcccta 240

gaagcggccg aggtcttggc cttgctgggg cttgcccgtg ggacggcgcg gggcgccctt 300

tgcgtgtcgg cccacgccag ccacgccacc cccatggcgt tgccacgcta ggcagtggct 360

agtgggggtg gtcattggtga gtggtgaccg gcctgcttgt gtggcgcgga gcggaggagg 420

acagcgagac gcgcacgacg aaccctgtag tgccttggca gttcttgcac gctttgcgc 479

<210> 32757

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G12

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atgcagagag agtgccatat gttgtaatcc atggggaacc aggagctcgt cttgccgaca 180

tggttattga tccttatggt ctgctagaag ttggctcccc ttatagatta aatgaacaat 240

attacataac caagcagatt attcctgcat tgcagcgtgt ttttggactt cttggtgctg 300

acctgaacaa gtggtttaat gagatgcctc gcccatacg atcaactctt gcgaaacgcc 360

aatttgctgc tgctcatggt tcattctctc gtgatggcag tttcatccga ttaggattga 420

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<212> DNA

<213> Zea mays

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cacagaagag atagccgagg ttgtcaagtc aagtgtgctc cctgacatgt tcaagagcac 300  
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<223> Clone ID: LIB3068-036-Q1-K1-G6

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attgaaaaaa tgtttacttc ctatatgttt tgccatccac attaaacata tcctaagttg 180  
tcaagtcaag ttttctccct tacatgttca atatcacttt taattcaatc accaaaatga 240  
aattct 246

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<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G9

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aagttgaagc cgaacgtgca ggagtacttg caggagtact agttgctgtt cgacttcctg 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-H1  
  
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 ttttaagctc c 131

<210> 32762  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-H12  
  
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 actggagcca aggtgaccaa ggctgccgca aagaagaaat gatgtgtctg gctgggttctg 180  
 tgtttgcttg agggaaacct agtggaacaa taaaatatct cgtcttggtc acgtcattgt 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-H5  
  
 <400> 32763  
  
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tcttttctct ggaccataac gacttcgtcg agatcgagat cgatgacacg ctggagatgc 300  
tcaagcatct atgtcgggtga ggtcagacat atcagcggcg aactgatcca ctttacgaca 360  
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<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gaaaggagag aagaaagacc atcagtgatg aacgctntcg agttaatctc tacgtctcaa 420  
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<210> 32765

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-H9

<400> 32765

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gagaataaac agttctcatt acctcctctg atgaccttc tccttgggga acctggaacc 240  
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gagaaatgca aagatacatg gagtaaacg gcctttgcca attcagcgt ggagaaccaa 360

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<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A1

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tttttttttt taaaccattc ctaatctaaa ctttattaat tttctttaaa atcatttttt 240  
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<212> DNA  
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<223> Clone ID: LIB3068-037-Q1-K1-A10

<400> 32767

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<210> 32768  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A11

<400> 32768

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cggcgggtac accccgacgc cgacgccggc caccgccacc ccgaagcccg agaagccccc 180  
caccaagggg ccgaagcccg acaagccgtc caaggagcac aagccgtcca aggagcacgg 240

gccccagccg gagaagccgt ccaaggagca caagccgacg cctgccacgt acaccccgag 300  
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 cacatacact tccggccc 378

<210> 32769  
 <211> 245  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-036-Q1-K1-F5  
 <400> 32769

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 ccgccggcca cgccccagac gtaccccgcc gccgtcgtcg tcttccgctc ccttcgcgcg 120  
 cagccctcgt tccgccgtcc gggtcgagc gcgctcgctt cttcttccca cgtcggacag 180  
 gttaagtgtg gcttcatcgc gtgagtagtt gcagttagcg tggcttttct tcgtgcttgc 240  
 tcctg 245

<210> 32770  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-037-Q1-K1-A3  
 <400> 32770

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 cagcaagcgc aaggaccacc ctgcatatag ttttttgtca gcaactgaat catcttcatt 120  
 gaaaaatgac aatgttggga atgaactcga cctaagaata gctagcggcc tacagagtac 180  
 aggacaccat tatgaagggtg gatcttggag tgatggccat aagtctgaca tatctggcaa 240  
 gagacatgtt gccatagtca ccaactgccag tcttccttgg atgactggaa cggctgtgaa 300  
 tcctttgttt cgagctgcat acttggctaa atcntgcaag gcagatgtaa ctttgtagtg 360  
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<210> 32771

<211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cacacgaccc ggcccgtcct ggcacacagt ntnggccatg gcntgaccan ntagccannc 180  
 gatggggcgc tgctnnngaa gcccgc 205

<210> 32772  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-036-Q1-K1-C3  
  
 <400> 32772  
  
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 acaaggcact tagcgagcct tagatgggca atgtggatga ctgtatgggt tggaccatgc 120  
 aactcaatca gtatcggatc acagatatng ccttgacaaa tcccggatta ttacagctac 180  
 tgcgtgccat agtttttttt tatggcagat ccattcttgag cattatagac tgtcccggta 240  
 ctacttgtag actaagacaa aagtgatctt actgatcttt tgattaaaat ctataactat 300  
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<210> 32773  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-C5  
  
 <400> 32773  
  
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cgcgactccg aggacgtgca tgcgggctac gccgcgcagc tcgcgcgctc cttccgcgctc 180  
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cgcgccgccc cggcctgcgc cgtcgaggtc gctcctggg tgtaccgct cgcgctcttc 300  
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ttcgcgcgcg agttcggcag gttcgccgac gtcgccaccg tgctgcagca ccaccgtcgg 420  
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<210> 32774

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C7

<400> 32774

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ttctgtatgc gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa tattaaaaaa 180  
caaacaagaa tttatattca ttcaaa 206

<210> 32775

<211> 180

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-C8

<400> 32775

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naactgggag cactcgagac agcagcagcg gctttagttg agatgcatag ataaagcgta 120  
taagttatct gtggtctagc gcgtacgtgg aagcttgtgg aggagcttgg tgttgactac 180

<210> 32776

<211> 195

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-D1

<400> 32776

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tttcagtatg atctgagtaa gttctgtcca ttcaacaccg tcctcttgga tcatggcgac 180  
ccgtcagtga acaca 195

<210> 32777

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D10

<400> 32777

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ccgggggaaa gcccatcaaa tgcaaagcgg cgggtggcgtg ggggcccggc gagccgcttg 180  
tgatggagga ggtggagggtg gcgccgtcgg tgcgcctgga ggtgctcgtg aagctgctct 240  
tcacctacat ctgccacacc gatctcagtt tcttgaaggg agagaacgag ctgcaccgca 300  
agttcccacg catactgagc catgaggcat ccagagtggg ggagagcgtg ggtgacggag 360  
tggaggatct tgccgcctgc gaccatgtga tccccatctt caacggcgag tgctgggcgt 420  
gcgcttactg cgag 434

<210> 32778

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D11

<400> 32778

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aaaaaaaaacc aaaacaaaat acataaaaga aacaaataca aaaacaaaaa taagccccta 120  
caatttttca acaaaccac aatatcccat cataacaaca taccaaactt cttatctctt 180

tccacccctct tacccaacct ccaccttttc c 211

<210> 32779  
<211> 152  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D3

<400> 32779

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aataaaagaa atattttaaaa attcaaacaa taaaaacaat aatacaaatt actaaactaa 120  
taaaatttat ataatttat acaaatctta at 152

<210> 32780  
<211> 467  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-036-Q1-K1-D4

<400> 32780

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cacccttcc ccaaagcctc cgacacccaa gccgaccca ccgacgtaca ctcccacacc 180  
gaagccgccc gccaccaagc cgcccaccta cactccgacg ccgccggtgt ctcacaccct 240  
cagcccgccc ccaccatact actagaaagc gatgcctacc ataccacact gctgtcagtc 300  
tctggagcat ttaggtggtc tggatcaatg gaagggttgt gtccctagcca gccggcaaag 360  
atgagctgct gatggtaatg atgatgataa gaggccactg ctaccctact acgtaccctn 420  
ctcttttgtgt gctggcatcc gtccccgtta gacgatcgan gagagaa 467

<210> 32781  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D5

<400> 32781



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 catttgctca tcccactatc attttcatat acaattacac tccctaacta cacaattata 180  
 ctctattatc aagaataaca taccataact aagctatcat attctacata aatcgtgcta 240  
 tcctttcact ataattatat accttacacc ttcaatataa taactactta aatctttctt 300  
 catttactac ataacaccat atctagatta aacctatat 339

<210> 32782

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D7

<400> 32782

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 ccaaccgcgt cttcgacggc atgcgggccc tgctccccgg ccaggacccc gacgaggttc 180  
 gcgcgagtta caagccagat gtaatcaaag gggatatgga ctcagtaaga ccagaagtga 240  
 aggagcatta ttccaacttg ggcaccagaa ttgctgacga gtcacatgac cagtacacga 300  
 ccgatttaca caaatgcata gctattatag ctgataatta ttctgccact aacaaatcta 360  
 accagctcag catcttggtt cttgtagcac ttgggtgaag gtatgatcac gagatgggat 420  
 acatcaatgg gtcctatctg tgtccaagca taaatatctt cctcctatc 469

<210> 32783

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-E2

<400> 32783

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 aaccgcgacg agcggcgatg accggcacgg tgtccaagct ggccggcggc cgtccggcgg 120

caccgccgct cgggccggcg tccctccgca ccgccgccct cgccttcgcc ccttccccgc 180  
 gccgagtcgg cgtttccgtc gccggggcag ccaggagccc catcattggc atgggttcgg 240  
 ccaaggaagg aagcgggtgca ccgaccaaga ggactgcgct tcatgatctc tacgagctcc 300  
 agggcctgtc cncggtgtac gacaac 326

<210> 32784

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E3

<400> 32784

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 tacaaggaag caaactgggt tagttctgct gtgtgggtgg ttctgttggt ttgctttggc 180  
 agtgctgtca cttgcgctta tattgttaag aaacttcttg aagtaacatc tgcagggtca 240  
 tcccaagatc ctcttgacct tctatttatc aggcaaggta atctatccca aagaaagtgc 300  
 tcttatgttg taattggaag ggttattttc agcattttgg ggatattcat ggctgcgggt 360  
 gtcacatata ctgtcatcac tgatggacta ccttttagga aggaattggt gacaccgtgg 420  
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<210> 32785

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E5

<400> 32785

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 aatcaaccac acaacccaaa ctcccaaacc aacaaattcc taaaccttaa tcaaacacaa 180  
 caaaataaaa catttatcca ataacaaata aacaaaaaac ctaaaaaaaa cctaataacc 240  
 aacaaaatta c 251

<210> 32786  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E6

<400> 32786

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cctggatcta agacatcatt cccgagtact gaagtagcag gaacctacgc tccaccgttc  180
catgtcgagc tgtatcgcaa tgaccagcac cgcttcaaga ttgttgtcga cggtgatact  240
gaagttgact taatggtgca aacacggcac atgcgagacc gcatcatcct cagcatcaga  300
ggcctcgccc agaagttcaa cagcacctcc ctcaacacac ttctcaagat cgagtcatga  360
tagacctgac agtgtaaaaa ccaactataa cgggaagctg tacccttgt                410
  
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<210> 32787  
 <211> 202  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E8

<400> 32787

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ttacctagtt catagaaaaa agattctgcc aaaccaacat acagcaagac ccattctaca  180
tcttgaatgc aacacttatt ta                202
  
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<210> 32788  
 <211> 473  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C2

<400> 32788

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 cttctataacc ttgttggttc caccttggtt cctgacacca tgaggggatt tgtatcccca 180  
 agatatctac cactgttggc agattttggg aagatccgtg agtatgcttg gggggctgca 240  
 gcccttgctc atttgatatag gggattgtct gttgcagtaa cacctaatagc cacaacacag 300  
 tttctcggca gtgcaacttt gctcatggcc tggatttatg agtatcttcc tattactcaa 360  
 ccacaacaga agaaccagag cacattgctg ccccgggcta gccggtggaa ctttggagga 420  
 gcaacacgtg gacagagaaa aaaggatcatg gactggagaa aagtttttga gca 473

<210> 32789

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F10

<400> 32789

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 cctccctcgc gcttctcaag atgctcaagc acgggagggc cggcgtgccc atggagggtca 180  
 tgggtctcat gctcggcgag ttcgctgatg actacaccgt cagggtcgtc gacgtcttcg 240  
 ccatgccgca gagcgggact ggggtcagcg tcgaggccgt cgaccacgtc ttccagacaa 300  
 acatgcttga catgctcaag cagaccggca ggccagaaat ggttgtaggc tggatatcact 360  
 cacatcctgg cttcggttgc tggctatcag gcgttgatat caatactcag cagagttttg 420  
 aagctttgaa cccaggggca gttgcttgtg tgatagacc catccagagt 470

<210> 32790

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F2

<400> 32790

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cacaaccagt acctagttca gagaaaaaag attctgccaa accagcagaa agcaagaccc 180  
 agtctacatc tggaatggaa gacttattta aagactcacc agctgtgcc tttatctcag 240  
 ctccagctgt ttccaagta aacgctaaga atgatatcat gagtttgttt gagaagtcca 300  
 atatggtatc acctttcgct gcccatcaac agcagctggc gctcatgtct cagcagcaag 360  
 ctcttctaata ggctgctctc aaagctggaa atgcaccaca aatgatgatt ccaggggact 419

<210> 32791

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H2

<400> 32791

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 agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180  
 tgaagctgag ctaaagcttt ctcgccagga gattgcaa atctccaggatg acaacagagc 240  
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 aattgctatg gcaaaagctg ctatgggtga cgatttgcaa aacaagaacc aagagttgat 360  
 caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgccaaaa 420  
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<210> 32792

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-H3

<400> 32792

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 gcccaagccg accccgcccga cgtacactcc aagccccaag cctcccacac acccgacgcc 180  
 caagccgacc ccaccgacgt acacccttc cccaaagcct ccgacgcccc agccgacccc 240

accgacgtac accccttccc caaagcctcc gacaccaag ccgaccccccac cgacgtacac 300  
 tcccacaccg aagccgcccg ccaccaagcc gtccacctac acttcgacgc cgnccggtgtc 360  
 ttacaacccc agcccggcgg caccatacta ctagaaagcg atgcctacca taccacactt 420  
 gtgtcagtct ctggagcatt t 441

<210> 32793

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H6

<400> 32793

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 tgatgacatg ccaccaattg aagccattct tgcaccactt gaagctgagc taaagctttc 180  
 tcgccaggag attgcaaadc tccaggatga caacagagct ttggatcgtc taacaaaaca 240  
 aaatgaggca gctctgctag aagcagatag gactgtgcaa attgctatgg caaaagctgc 300  
 tatggttgac gatttgcaaa acaagaacca agagttgatc aagcaaattg agatctgccc 360  
 tgaagaatat aaaatcttag attagctgca 390

<210> 32794

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H7

<400> 32794

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 tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc 180  
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccg 240  
 ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgaggggcatg 300  
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggcccagtc ccgcggcggc 360

cgtggaggcg gcggcggcgg cgggtacggt ggtggccgtg gaggcggcgg ctacggcggt 420  
ggcgggcgcc gtgatggcgg cggcggc 447

<210> 32795  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-035-Q1-K1-H8

<400> 32795

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ggtcaaagtt ctctgggcta tctctttgga agcggcgagc cccccaaacc agcactggca 180  
ccagctgcaa gtgtccacc tgttgagaaa ccatctgctg cacagactga tgcggccaag 240  
cacgttgctg ctgcggttac cagccaaacc aataactacc acagggctga tggtcagaac 300  
actgtcaact tacttactga ccgctcttca accaatgtcc acgctgctcc tggcgggtggc 360  
tcttccttgn gctacctgtt cgggtggcaac tgatgcccggt gctgatgcgc tcaccaaagt 420  
tatectcccc tgctgctgc gtgctat 447

<210> 32796  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H9

<400> 32796

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gcgctgcccc ccccgctctc cctctctcac cgcgcattca tcgcgggcgt cgcgaccaag 180  
gaacccgagc tcggcggcgg cggatcgggg gccggcgacg gtgccggagg gagcggctgc 240  
ggcagcgacc cgaggggagg agggcaggaa ggagactgtg aggaagagaa gatggggcag 300  
ggcctgtcca tgtgcataa actcaccctc gcctacgccg cgctcgtcag aacttgtggt 360

gaaatgggat atatg

375

<210> 32797

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A2

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ctggcctttg tggccctaga ctacgagcag gagctggaga ccgctaagag cagctccttc 180

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<210> 32798

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A3

<400> 32798

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ctgtcgcttg ccctgacgac gcacaaaact gcagctgcca accaaacgta tgctgcaaca 180

agtttggtta ctgaggcacg acc 203

<210> 32799

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A5

<400> 32799

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gacagggatc ctactaaagg cattttttgt cacaaaaaca tgctacgttc aaggaatgca 120

ctcctgctga gctagcggcc tatgccttca aaccagcaac tgaaaccgga atatcatatg 180



acaactaagc atcatgcatg ctgctcagca ccatacctag acagacgctg cacgttttagc 240  
ccaatctgca aatcagaacc tacagattct gctgaatta tgaacttctt tccctactgc 300  
acttctcgat atggtgctca tcatgtgagt gaatcagatc ttacttattg tcgattcgct 360  
agaagtgtga ctggttaattg gagtctataa acccggtgta ggcttcttac atacaactgt 420  
tactacaccc aagtttagtag aacccttgga ctacttgcc 459

<210> 32800  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A7

<400> 32800

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acaacatgcc aaacgcaagc gcaccgaggg tctcggcgga ccagcttttt actttctggc 120  
tatcactcct ctgcgctgtc gccggcccg ggcgcgcga gaactgcagc tgccagccaa 180  
acgtatgctg cagcaagttt ggctactgag gcacgaccga ccagtactgc agcgacgggt 240  
gcca 244

<210> 32801  
<211> 187  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-036-Q1-K1-B1

<400> 32801

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gctatggcaa angcaagcgc gccgagggtc tcggcgccc agctgggtgac tctcgggcta 120  
tactcctct gcgctgtcgc cggcccgcc gncgcgcaga actgcggctg ccagccaaac 180  
gtatgct 187

<210> 32802  
<211> 156  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B2

<400> 32802

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atctcactga tccagtatgt ctagggctaa tggagacact ccaagggctc ctgoggccca 120  
tctgccaaact ctgggctat cactcctctg cgctgt 156

<210> 32803

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B5

<400> 32803

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gctgagtggc acactcctga cgggacccga aagatcatct actatctctg agcctatcaa 120  
atccatacga tactctcgtg caggctcgaa gccatactta cgtgcaaata gctcatctgt 180  
cttgatataa ggttcgatac actaatccaa ccatctagta cttgggttcac tcttaacttt 240  
ccctcagcat agctgtagcc cacactagtt ctatcggcta aagccaatga ttatatgcat 300  
ccttttctca acgctcttta cctatcttca tactttacct agctatta 348

<210> 32804

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-B7

<400> 32804

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aacactttct catatgagaa actcacgaag tctttttatc agttactact ttttgatac 120  
tcgtttgctt aatctctcga tattcattct ccaatgattc catatcattt aattactact 180  
tgagttactt cattatactt ttcttttctt tttattggta attattcatt tttattttta 240  
cttattttgt attatttatt ttctaattct t 271

<210> 32805  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-B8  
  
 <400> 32805  
  
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 aaaaagagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaagggcgcc ctttataaag aaccaaaagt aaattaccct 180  
 tacttccaac ataaaacctc ttataaagac aaccttaaatt caaattaatt gccattgtt 240  
 taaaaacctc aaaactggaa aaaccttgac atttccaaat ttaataacct taaaaaaaaat 300  
 cccctttt 308

<210> 32806  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-B9  
  
 <400> 32806  
  
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 gatagtggtc aaccaagctg atgatgttgc atgaatcatc tcatcgaagg ctggcctcaa 120  
 gtatctgggt cctgatgttg atgctatgaa agctgtggcc gatgcctact ccaaaaggct 180  
 tctgaagtac ttcgaaactg ctctccgtga ttacaaagct cagctggaag aagatcctat 240  
 tgtccacagg cacctttcct cgctgtatga cactctcttg gagcagaacc tctgcaggct 300  
 gattgagccc tactcaaggg tggagattgc tcacatagca gagatgattg atctgccaat 360  
 gaaccatgtt gagaagaagc tgtcccagat gatcctcgac aagaaattcg catggacact 420  
 tgatcaaggc gctggctgtc tcatcatct 449

<210> 32807  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H12

<400> 32807

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gttgaaggag aaatttgaaa agaattgttca agaggtagct gagaagttcc aaaacacaaa 120  
cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgcgtg aactctttgc 180  
tgagtatggc aatattactt cctgcaaggt tatgcgggat tcgaatggtg tcagcagagg 240  
ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagaagaa 300  
tggcaaaatg gttggaaagc agccccctta tgt 333

<210> 32808

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C11

<400> 32808

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ctgggcttaa aatgccggga cgtcagaacc cgtgaggcag ggattcagga tatccatcac 120  
aagatccggc cagatgaagt agagcttgct agacgtgact atgctgcaaa tgaggggttg 180  
gaaacattcc tctcttatga ggatacacga caggatatcc tgatcgggct gttgcgcttg 240  
cgtaaagtgt gccgtaagt tacatgccct gaacttgtaa ggaggtgttc aattgtgcgt 300  
gagcttcatg tctatggaac tgcagtcctt gtgcatggcc gtgatgtgga caaactgcat 360  
caccagggat acggaactct attaattggaa gaagcaaaaa ggattgctcg aaaggagcac 420  
cgatcgaaaa attatctgtc attttcgggt tggtag 456

<210> 32809

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F12

<400> 32809

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acctttgcaa aattaataaa agaagacaag aacaagcagc cgaaaatgga atcatccctc 120  
acttgatgaa atttgtcatg tcagactcac ctctgcggca gtatgccctg cctttgctgt 180  
gtgatatggc tcatgcttct cgcaactcta gagagcagtt gagggttcat ggaggactag 240  
atgtgtactt aaatctgctg gaggatgatg catgggcatg cacggcatta gattctattg 300  
ctgtttgttt ggctcatgat aatgatcaca gaaaagtgga acaagcactg ttgaaaaaag 360  
aggccat 367

<210> 32810

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F2

<400> 32810

gatataataca aaatcggaag aggtcaaagt agggcttttg gaaaacctat tgctgtagaa 60  
tacacatcat atgccggtga aaccccatct ttatctatgt ctgtacacca caactcgaaa 120  
caatatgcta tcacaacact accaactact tttgatcacg gctttcctgc tctgtcagac 180  
cctattacac atactgcgaa ctctattcat aatgggtactg ggaacaacca tacacatgag 240  
aatcattggg tgtctcagga tgagcctcac tctgcagttc agttcacagg catttaggca 300  
tctgttgatc aatatctatc tgtggcatca ctggaccaac ctatgt 346

<210> 32811

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F3

<400> 32811

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ggaatcgctg ctctctctg tgctgtcgat ttgtgcggcg actgttagtt tggttcggtc 120  
ccatccttct gttgatcaat ggctgacggg gaggatatcc agccacttgt gtgtgacaat 180  
ggcactggaa tggtaaggc tggctttgct ggtgatgatg cgcccagagc agtgttcctt 240  
agtatagtcg gccgccctcg gcacacgggt gtgatggttg gaatgggcca gaaggacgcc 300

tatgtaggtg acgaggcaca gtcaaaaaga ggtatcttga ccttgaagta cccattgag 360  
cacggtatcg tgaacaactg ggatgatatg gagaaaatct ggcaccacac cttctacaat 420  
gaactgcgtg ttgctcctga agagcacc 448

<210> 32812

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-F4

<400> 32812

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gatcaaaaga acttggaaaa taaagatgat gtaccgaaca ctgaaaaagg ttcctcaatg 120  
ggggtggatt ctgacttcac ttctgaatgt aaaacccaaa ctgtcaataa tatgaaccat 180  
tctgggatta ctttaaaaga aaagagcagc gatcctcctg tcagtaacaa gaaacaggat 240  
tctgcagttg agcctgcctc caccgcacca aagagaagaa aggttttgaa gacacgcata 300  
gatgagaggg gaagggaagt tactgaggct gtttgggagg gtgaagggtc tgcagatgac 360  
aaggcagaga agaatgtcag cacaactgct gcgagcgng cgactatccc aagcaaaccg 420  
aaaccagcaa caagcaccga caaaatcaaa g 451

<210> 32813

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F5

<400> 32813

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tcccggccgt ttaatttact agtgtgttcg tcctatatgt ttagcagcag cagggtgtatt 120  
gtgcggttat gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca 180  
aatatgcaag g 191

<210> 32814

<211> 438

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-F7  
  
 <400> 32814  
  
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 cagcaagcgg tggtagagcg agaggtctag aagatgaaga gcagcactct gttggcgatc 120  
 ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc agggccgacg 180  
 acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240  
 gacctctca ccaagtgcgc cgacacctgc aagaactgcg tccccgtgtc cacggacaag 300  
 ggggccatca agtacagggt cggagacttg ctccccgaaa actgctgctg caagatccac 360  
 tatagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420  
 ccatgttctt acgtccgt 438

<210> 32815  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-F8  
  
 <400> 32815  
  
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 tatgaatgta taaccaatac tgtcaatatt atgaaccatt ctgggattac tttaacagaa 180  
 aagagcattt attctgctgt cagtaacaat aaacaggatt ctgcagctga ccctgccttc 240  
 accgcaccaa agagaagaaa ggttttgaag acacgcatag atcacagcgg aaggggaagt 300  
 actgacgctg tctgagacgg tgaaggttct gcacatgaca aggagagaa gaatgtcagc 360  
 acaactgctg cgagcgggtgc gactatccca agcaaaccgt agccattacc aagcaccga 419

<210> 32816  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-G11

<400> 32816

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cttaatgtta ccatgaaggc tgatgacaag gagttgattg gcaaagcttt gatgaagcgt 180

gttatgcaaa cgtggctacc agccagcact gcacttcttg agatgatgat attccacctt 240

ccttccccgg caaaggctca aaagtatcgt gtggagaact tgtatgaggg accccttgat 300

gatgtttatg caactgctat cagaaactgt gatccgtatg gccctcttat gctgtaatgt 360

tcaaaaatga ttccaacatc tgacaagggc atgttctttt gtcctttggt cgtgtcttct 420

catggaaggt tgctactggt atta 444

<210> 32817

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G12

<400> 32817

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaggac agacctaatc taaaaaaatc caaatTTTtac ttcccctttc 180

ttgcaaccaa ttactttttc ttttggttcc cctaatttaa tttaactggc ctgtatttaa 240

aaacttttta actggaaaaa ccttaacttt cccaaactaa taaaacttta agcaaatccc 300

ct 302

<210> 32818

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G2

<400> 32818

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atatatatat gctgtactgc aggccacaca tacatatata atagagtact acagtacatg 120



atatagatgt atacatcgag ttctaaatgc tccacgaagc gggccgatat tattgaccat 180  
tcaagcgaaa catttacata gcagacgacc gattctactg cgagaacccat gaaacagaat 240  
tttggagcga atcctgtctc ca 262

<210> 32819

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-G4

<400> 32819

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tttgacaact cttacttcaa ggaacttctg agtggtgata aggagggcct tcttcagctc 120  
ccaagtgaca aagccctgct gaggtagcct gttttccgcc ctcttgatga gaaatatgct 180  
gcggatgaga aggctttctt tgatgactac aaagaggccc acctcaagct ctccgaactg 240  
gggtttgctg atgcttaaat agaccctatc ctggagtgat acattctgct gcatgtggtc 300  
ttttgcatct ggagtcaatg tgaacaagca gattgtcgta ttgtctttct cgtaataaat 360  
ttgtcaatgt tgagccctta ggcttgaatt gtgggaccct ttgntcggtt tcctagactc 420  
tgatgctgta tgcaactgaa acgagtaaatt ctatgatctt 460

<210> 32820

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-G6

<400> 32820

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gacgcgatgc gcagcgtcgg gtcgcgtac gccgccgtcg ccggcgggct cggctgcttt 120  
gtggcgtcgg cgatcaacac cgcggtggac gccgcgacgc gggacgatga ggaggggagg 180  
ccgtcgtggc tggcgagaa catcaacgtg ggcaggttcg actacctgta ctggctgctc 240  
gccgtgctca gcacagtcaa cctgctcggtt ttcgtcttct ttgccaagcg gtacaagtac 300

agggtcaggg tcgacgtgcc gaccacagtt gctgttgata agcagtagct agccgctagc 360  
gccattacaa ggatttgagt ttggatgtgc tgtaactatt gattactggg aataccatan 420  
aacatagatc 430

<210> 32821

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G7

<400> 32821

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ataaaaaaaaa cgatgtgtaa tataacaatt gtactaaata tagtaaagaa atcaaaataa 180  
tcttttagatc aatctaagat ttcgattccc agtaaaaaaaaa aaagaaatat aatagaaaaa 240  
tatgggacaa aaaataaatc cactcggttt cagacttggg acaacccaaa atcaccattc 300  
cttttggttc gcacaaccaa aaaattattc tgaaggctca caggaagata aaaaaatagc 360  
gaattgtatc aagaactata tac 383

<210> 32822

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G8

<400> 32822

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ctaaatgcc aagacaaaa ccctgttttag agaccctgtt ttactgcctc ctgtggcgaa 180  
aaattatgcg aatgagaaag ctttctttta tgactacaaa aaagaccacc tcaaactctt 240  
ccaactgtgg tgtgctgatg cttaaata cactatactg gagtgatata aactgatata 300  
tgtaagcttt tgcattctga gtcaatgtga acaaacaca 339

<210> 32823  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-H10  
  
 <400> 32823  
  
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 cgagaagagc agtcgccatg tctggcatca tccacaagat cgaggagaag ctccacatgg 120  
 ggggcgacca caagaaggag gatgagcacc acaagaaggc cgaggagcac cacaagaagg 180  
 aggaggggga gcaccacaag aaggacggcg gggagcataa ggaaggcatc gtggagaaga 240  
 tcaaggacaa gatcaccggc gagcacggcg acaagtccgg cgaccacaag gaaaagaagg 300  
 acaagaaaaa gacgaaggag aagaagaagc acggcgaggg ccacgaccac gaccacgac 359

<210> 32824  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-H11  
  
 <400> 32824  
  
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 ctgtctctgg ggtatacttt ccccgttcta ttgctaccgc ggtcttatg caatcgatcg 120  
 gatcatatag atatcccttc aacacaacat aggtcatcga aaggatctcg gacgactgac 180  
 caaagcacga aagccagtta gaaaatggat tcctatttga agagtgccta accgcatgga 240  
 taagctcaca ttaaccgctc aattttggat ccaattcagg atttttcttg ggaagtttcc 300  
 gcaagaaatt ggaataatat cgattcatat agaggagaaa gctctgtatc gatgcaaacg 360  
 ctgtacctag aggat 375

<210> 32825  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-F11  
  
 <400> 32825

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 gccgtagatt gacgacgagc aatggaacaa gaggttgccg tacattaggt atggtggtga 120  
 cgggtggagct acccttgtga cgggtggtga taggttgggt gacaaggggt tctacatcca 180  
 gccaacgatt ttctcagatg tccaggacgg catgaagatt gctcaggagg agatatttgg 240  
 gcctgtgcag tcgatcctca agttcaaaga cctcaatgag gttatcaaga gggcaaacgc 300  
 gagccagtat ggattggccg ccggcgtggt caccaacagc ctggacacgg ccaacaccct 360  
 gagcgcgcg ctcagggccg ggaccgtctg ggtgaactgc gttcgacgtc ttcgatgctt 420  
 cgattccgtt tgggtgggtac aagatgagcg gcatcgggag ggaga 465

<210> 32826  
 <211> 157  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-D10  
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 gagcatgtac tctcgacaca aagcgcatt caagatcatt acagagctta aagcgtccga 120  
 tactctcggt gctacactgc aaacaagtgt gcatcac 157

<210> 32827  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-D11  
 <400> 32827

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 agggattgtc tagagtattt aaaaatgagc gctactacgg accaaatata ttacgccata 120  
 caacctcctg acaattacat gggcatctaa tcatctacat gggtagaact agagcggttaa 180  
 gaactagaag tcaactgtttc gaggtaaaat gtactttgtg aagatgtaac ttttttcagg 240  
 aattgcacca ttgccgtcat caatcccaag agtgcttcat tcttttgtac aaatgcttca 300  
 atcatata 308

<210> 32828  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-D2  
  
 <400> 32828  
  
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 ataaacaaaa tctcgcactt gctcgagctc tagatattct ttctattctg catgctgaac 240  
 atgaaatgaa ctgctgcact gctgctgtta ggcaccttgc ttcaagcggg gtggatgtat 300  
 ttactgatct ttctgggtggg gttggagctc tatatgagcc tctgcatggc ggcgcatacg 360  
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gctctccggt ttgattgggtg gctcttgtgg tgtgtggggag ccacgtaatc tttgcttgga 180  
aggggaattgc gttgtacaat gatgaaatgg gccgggtaat gcatgggact ctgggtcaagt 240  
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<210> 32831

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D6

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aggaggaggc cgaggaggag gtcacggtgg atgagcagtc actcgacaag tgcctcgtcg 180  
ggctccccag gggctggacg gctgataggc tcaagtcctt gctccaggat cagggaatct 240  
cgtatgcaac 250

<210> 32832

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D7

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gaccaggaga ccaagaagga gtcacggcg gattagcaga tacctagaca tgtgcctcgt 180  
acatctcacc atatactgta cgtatgatag gctcaagatc tagctccatg atcagcgaat 240  
cacatctgca acaaatacaa aa 262

<210> 32833

<211> 440

<212> DNA  
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 gtctaccacc tgcggatcgg ctctgactgc gaggcgtcca gaccgtctgc caccagcgcc 240  
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 gcctacgggt ccttcgcgtt cgctcgtcgag aggatcaaac tctggaagct gatgatgcaa 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-E11  
  
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 cccgacgccg acgccggcca ccccgacccc gaagcccgag aagccccca ccaagggggc 180  
 gaagccggac aagccgcca aggagcaca gccgtccaag gagcacgggc ccaagccgga 240  
 gaagccgccc aaggagcaca agccgacgcc gccacgtac accccgagcc ccaaactac 300  
 gccgacgacg tacactccca ctccgacgcc cccaagccg acgccatcca catacactgc 360  
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 caagcccaa acc 433

<210> 32835  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E3

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aagtagagag aactgcacag gctggggttg aacaagagtg tgactctgtg ccaattgatt 180  
ctgaggaaca cggttgctg acttcatatg ctcatactga tgatgagcaa gatgaggtga 240  
agcagaaagt cacttctgaa acagcagatg ttctacatta tgcagcagac acttttaatg 300  
ttaacacaaa ctcatggaaa gaagatattg aagaggatcc aactgaagct gctctaacag 360  
ccatacatca aatttgttac gaacctttga cgagcatagt caagttctct ctagatcaca 420  
gtgtctccga agaagacaga gagcctgata cgcc 454

<210> 32836

<211> 449

<212> DNA

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<223> Clone ID: LIB3068-035-Q1-K1-E5

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agtatagaga actgcacagg ctggggttga acaagagtgt gactctgtgc caattgattc 180  
tgaggaacac ggttgctga cttcatatgc tcatactgat gatgagcaag atgaggtgaa 240  
gcagaaagtc acttctgaaa cagcagatgt tctacattat gcagcagaca cttttaatgt 300  
taacacaaac tcatggaaag aagatattga agaggatcca actgaagctg ctctaacagc 360  
catacatcaa atttgttacg aacctttgac gagcataatc aagttctctc tagatcacag 420  
tgtcttcgaa gaagacagag agcctgata 449

<210> 32837

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E6



<400> 32837

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gaaattttaa aactcctgac tttctaaagc atccaaattt cctccccat accttccaat 120

ttataactct tttatagtgc aacctaaact aaattcactt gccacattt tacaactttc 180

tgaccggtaa aacccttaca ttaccaact caatggcctt gctgacaat ccccattttc 240

taacttgctc aaatgccaac acgccctaac tcatcatatt ttccaacaat tccccctcct 300

taatgcccaa tgatacacct ctttttaacc gtcattaaac accttatgat cttggtgata 360

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<210> 32838

<211> 447

<212> DNA

<213> Zea mays

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<400> 32838

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ctccaagccc caaaccttcg acgccaagc cgacccacc gacgtacact ccttgcgcca 120

agcctccgac acctaagccg acccgccta cgtacactcc aagccctaag ccaccggcta 180

ccaagcctcc cagcccaag ccgaccccg tcaacgtacac ccttcgcca aagcctccga 240

caccaagcc gacccgctc acgtacacc cttctcccaa gcctccgacg cccaagccga 300

ccccgccgac gtactactca agcccaagc ctccacaca cccgacgcc aagccgaccc 360

caccgacgta caccctttc tcaaagcctg cgacgcccaa gccgaccca tcgacgtaca 420

cccttacct aaagcctgcg acacca 447

<210> 32839

<211> 411

<212> DNA

<213> Zea mays

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agatggcacc gaaaggagcc gtattcgtct caatctcaca gttccccatc aagaaaatcc 120  
 gcaaggattg cacctacctg agcaactccag caatgaagat ccctgaaacc atgcaaaata 180  
 tccatgcctg cgagaactgg ctgcccaagac ggctgatgag cgcttggcgc atcggcgggga 240  
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 agaaagcatg gtcagctgct attaagcacg gattcgttcc tttgacgaaa gcctgaaagc 360  
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<210> 32840

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E9

<400> 32840

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 gtggttccat cctcttctgt ctggaaaatg ttgtcaccaa actaccctat ttctgttcc 180  
 agtttggcat ggaagtataa gttgtgtact tctattctca agttgttgtc tttgtattat 240  
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<210> 32841

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F1

<400> 32841

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 cagggcgtcg cagtgtacc tgtcgaccac ggccggcccg atcgccggca tgctgttcgt 180  
 gtccaccgag agggtcgctg tccggagcga ccgctcgtg gcgctgcgc tgacgtctcc 240  
 ggccgcgggc ggcaccacga cggtgctgag ggtgccgtac aaggtgtcca tcccgctgag 300  
 cagggtcgcg gcggccaggc cgggcgagaa cagggaccgt ccggaccaca agtacgtgca 360

ggtcgtcacg cgcgacggct tcgacttctg gttcatgggc ttcgtcaggt accaggcgtc 420  
cctgcaggag ct 432

<210> 32842  
<211> 441  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-035-Q1-K1-F10  
  
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gcgaagcagt tgggtctctgc cgctgaacg ccgcccgaat ctgcgaggcc tccccgagct 180  
gcggtccgtcg tcagataagg cagacgccgg caccgcaatg ccggttcctc ttgctccgta 240  
cccagctcct ccggcgccat tcacgccgcc caatggggcc cagagccagc tcgtctgcac 300  
cgggtgccgg aacctactca tgtaccacgc tgggtgcgacg tctgtctgct gcgccgtctg 360  
cagcaccgtt attagacgtg ccggcttcat gaactgagat ggccgcagcta gtgtgcggaa 420  
gatgccacac gcttcttatg t 441

<210> 32843  
<211> 323  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-035-Q1-K1-C9  
  
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tgggtccatca acagtgttg ccagaccgg cctattacac tacaggacac cacatgcatg 180  
cgggtccattc cactgaccaa gcatgttgat gccataaaat cggcgcatgt gatcgctct 240  
gagaaagctg caacggcgcc acgtttgtcc ggctaaaagt tcacatgcct ttcaaagtgtg 300  
aaccaataa taatgccgag cgg 323

<210> 32844  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B11

<400> 32844

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aacagctaaa gctatagctc tggagtgtgg aatactagat gcaaatagtg ttatttcaga 180
gccagttgta atcgagggaa aagtgttccg cgagatgtct gaaagtgcaa gaggagaggc 240
cgctacatg ataattgtga tggggagatc ctcgccaaat gataaacttt tgcttgtcca 300
agctttaaaa cgaaaaggcc atgttgtaac tggttactggg gatggcaca atgatgcccc 360
tgcattgcac gagggccgct atatgtcttt caatgggcat ttcaaggaca gatgttgcta 420
aagaaagctc tgacattata atcttggatg a 451
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<210> 32845  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B2

<400> 32845

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atggcacaga ctcttggcgg cgcgaaacgcg actaactgat cctcccgccg gcggccagca 180
gatgctctgg ctgctagcat gcaaccttac ttagacgcgg caacacatta tacagctcaa 240
catatcctag accctctaga tcaaatacat actccgaaat cacatatgta aggatgaact 300
actgcctctt atactagggg ctatgactat agaatggcga tcattaggcc attaaacatg 360
acttgcttga caacattcta aatgaagatc tcgtcatctt aatgcaagag atcgatct 418
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 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B3

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cttaaagtga gggtagaaca ccatggaatg atgctgtgtg tgttgagcac cggagcttcc 180  
ggaggcaaaa aaaaaaagga gatcgatgga taccactgtg gtttccagta acttgatca 240  
gtttgtacag tggacgagtg gagttggccg ttgctgtttt tgatgtcgcc atggttgtgg 300  
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ttgtgacttg tgagggatgg gactagttag ttgggttttg tagagttact tggttatcaa 420  
tgtgcagaca tatatgtatg ccgcgatgag t 451

<210> 32847

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B4

<400> 32847

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cgagcactat ttaaactcaa gatatctcag ctctcttcca aatgtgacaa taagctcttc 180  
cgtattaaat tctctacact tcacatgcaa agatattctt ttctggaagc atattccaaa 240  
ccgattcgct gtatatctcg aagccgcaat gtccgccctt tgggtcctac aaagcgggag 300  
agttctgcaa cagcaaatga aattgacatg cttagtaatg gccaaagggt tgtagtagt 360  
gacaaagtaa atagtcgtgg acattcagtg tgtctgcata cgcccatgtt tccaagata 420  
gaagatggaa tggtggaagt agt 443

<210> 32848

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-B7

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cctaaaatat gactgaatcg attcctgata agaaattcat ccttaatatc tcgaatcatg 180  
acttataagc atactgaaat tatccattat acttatgatt ctctccaatg actttgcaac 240  
gtagatcaat gaacttgtcc ctgaataaat attatatcta caactatggt cattttactat 300  
cacctaaaat tcatcatcgc tcataatcta acctgtctca taaaattttg acctaaactta 360  
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<210> 32849

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B8

<400> 32849

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atctcaagat atctcaactc tcttccaaat gtgacaataa tctcttccgt attaaattct 180  
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<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B9

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ccttagattg ggtggaaagg ttcatcaact actagtgcac ttcgtcctgc tgaaccaagg 180  
aagatttcgg agattcctgc tgctgcacgc tacattacag tatctcatgc tgctgggaag 240  
cattctctta ccacgcttgg ttttgatttg aatgttgccat atgaccaatc tctctaggaa 300  
gatatccac agagttctgc acatactacc tgctctgaat ctggaaata 349

<210> 32851  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C1

<400> 32851

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atgccgctgt gaccacccgc tgcttggttt cttggaggaa ggaaattttg cttcaattgg 180  
gcgtcggtga gctagacccc tcctccagct cttgatccgg tccatggggc tctgccatgg 240  
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<210> 32852  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C10

<400> 32852

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gaggacgagg accagggcgg tcgcgctgct gggccccagg gcacgaggag tgcaacgaac 180  
aggagaaccg catggaggga gaagaggtag gggagtgtga agaggggggtg cggacgtaat 240  
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tggtgcgac ga 312

<210> 32853  
<211> 447  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-035-Q1-K1-C11  
  
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gaggagtacg tacagaactt gggacatgga aaccgtcgtg ggcgacctca tggcgaccga 180  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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aacgaggatg agctacgtga tgctgtgctg cttgttttcg ccaacaagca agatcttctt 180  
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accggcacia tatattnttt g 441



<210> 32855  
<211> 390  
<212> DNA  
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<223> Clone ID: LIB3068-035-Q1-K1-C2

<400> 32855

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accatccatc taaaaacccc tactttacgg cccctacat tcaatacact aaccttcatt 180  
ttgccacact aaactagtag actccccac tttccaacc taatcacctt gcaaacctt 240  
cccccttccc cacttattcc ccttgctaaa aatccccctt tttccaactt cccaacagc 300  
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cccccttaa acgcaccttt aaacctgcac 390

<210> 32856  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C5

<400> 32856

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ggcgaaccag tgcccgacca tcgacggcg cgtggagtcg ttcccgttca aggcgggcaa 180  
gtaccagatg aagaagctgt gcctggagcc gacgtccttc accgtcaagg cggagggcat 240  
cgccaagaac gccccgccg agttccagaa gaccaagctc atgacccgcc tcacgtacac 300  
gctggacgag atcgagggcc cgctcgaggt cggctccgac ggcacgctca agttcgagga 360  
gaaggacggc atcgactacg ccgtcgtcac cgtgcagctc ccggggggcg agcgctgcc 420  
gttcctcttc accgtcaagc a 441

<210> 32857  
<211> 445

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-C6  
  
 <400> 32857  
  
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 caagaaatgg cagaggatgg ccgcgcaagg gaggaagcgc ctcaccttgg gggcggcggc 180  
 ggcaaaggaa gtcgacgagt gctgcggtc tgtggcgagc aagggccatt gtgcggtgta 240  
 cacggccgac ggggcacggt tcgaggtgcc gctggcctgc cttagcaccc ctgtcttcag 300  
 ggagctcctg cagatgtcac aggaggagtt cggcttcgct ggcggcgatg gcactggcag 360  
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 agcctctgcc gagctagagc aggcg 445

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 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-035-Q1-K1-C8  
  
 <400> 32858  
  
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 cagggaggaa ggggaaaaac acgcggagag ggtgagcaag aaagaaccga ggcggatcgc 180  
 cttctgttcc tcctgccggc tccgcgagag gaggcactgc tcagggggga agaaagaggt 240  
 ggaacaacgc ccggggcaga gcagagatga tgcgggagac gtacatggac gtgctgccgc 300  
 cgggtggacca catagccgca cggagcaact ggttcccggc ggcggcgcgt ctgtggacgg 360  
 cggcggagaa caagcagttc gagcgggcgc tcgccgggct cgacctctgc cgcccggact 420  
 gggaggaggt ggcgc 435

<210> 32859  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B1

<400> 32859

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tatccaacca cctatatctt acttacctta cctccattat ccacattatg gactttgact 180  
tcccttacct tacccaattt attcgcttat acactatcac cctttatgat ttcttgaatg 240  
acaacatcta gtccacaccc taacaaccat ccaaccatat ccacgacata gaccttcatt 300  
ctcaccagac catgtatgct ccattacttc ctctcgcttt gccggctccg cccatgcctg 360  
acatatctct tcctacac 378

<210> 32860

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G5

<400> 32860

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atcggtcca agggaacagg tgagatggca atcctgtacg cgctggtggc gcgcggcacg 120  
gtggtgctgg cggagcacag cgcggcagcc accaacgcgg gcgctatcgc gcgccaggtc 180  
ctcgagcgcc ttcccagcgg cggcgccgac agccacgtct cctacacgca ggaccgctac 240  
gtcttccacg ccaagcgcac cgacggcatc accgcgtctt gcatggccga cgacgcctcc 300  
agaagacgga ttcccttcgc atttttggag gatattcatg gaaggtttgt caagacatat 360  
ggccgggctg cgctaaccgc tcttgcatat gcaatgaatg atgaattctc aagggctctg 420  
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<210> 32861

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G6

<400> 32861

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 gaccgaggtg caccactggc ccgagggggg ccagcacggc gcggcgggcg cggcgtgggc 180  
 ggacgacttc gccgagttcg cggcgggcg cgggggcgcg caccgcaggt cgctcagcga 240  
 ctcggtcgcc ttctgcgagg tggcgccggc cgacggcggg gccggcgagt tcgacaggct 300  
 cgacgacgac cagctcctgt ccatgttccc acccgacgag gccggcgga gcggcgggcg 360  
 cggcggggtcg tctgcggccg ggtccgagaa cggcgggcagc agcgacagcg a 411

<210> 32862

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G7

<400> 32862

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 ggtggaaaca gagaacagga actctttgat caaagcttgg gaagagaatg agaagacaaa 180  
 agctgacaac aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa 240  
 agcaaacata gaagctgaac tgaagaagat tgaggaacaa ctggaaaaga agaaggctga 300  
 atatgcagag aagatgaaga acaaggttgc aatgatacac aaggaagccg aagagaagcg 360  
 agcgatggtg gaggcaaac gcggtg 386

<210> 32863

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G8

<400> 32863

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 gggagctaac acaaattcac taactctttg atcaacaact tgtgaagaga ataaaacgac 180

accatctcac aactaagttg ctttgaaagt attcgctatt ctttcatgtg acatcacaga 240  
gaaagcactc attcaagatg aactgaagaa catttatgaa caact 285

<210> 32864  
<211> 393  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-034-Q1-K1-G9

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agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180  
atgacattaa ggtcttcgcc gcgggtgccgt cgaagcctgg cgctgagttt cctaatagccg 240  
cccgtggta cgagaccgtc tctggggctg tagcctcaag attccctggg aaggctgttg 300  
gtgtaaactc gcctgcggga tcagctcctg cggcagctgc tcctgcggat gaagctgang 360  
atgatgatga ccttgatctt tttggatgatg aaa 393

<210> 32865  
<211> 385  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H10

<400> 32865

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atgctcctga cacgtcaagg agccaacat atgctggcaa atccaccatt tctattgata 180  
cagtacagag gactaatgga atcactccat ctactgcagc tctgctaag gccctgtta 240  
tggatgaagc cccgcttaca gttactggat tgctgaactc gttgggtctt gagaagtatg 300  
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acctcaaaga catgggggta ccaat 385

<210> 32866  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-H11  
  
 <400> 32866  
  
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 cgcacctggt gctgatacctg tgcctccagg ccgctctggt catgggcgtc ttgcgcgctt 120  
 tggctaaaga aaatgccctg gttgagagca aggccatcga catcaaccgc gggcagctca 180  
 agtgctgcac caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa 240  
 aggactgcga ccccgctctg aagaagtgcg tcgtcgccgt gcacgcctcc tactcgggca 300  
 acaacaagtt caggtgcacc gacaccttcc tcggcatgtg cggccccaag tgctagatca 360  
 gagaggaaga acgcgcgctg ctgctagctg ctatagcttc gttctttcgg cggcggcccg 420  
 tgcatt 425

<210> 32867  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-H12  
  
 <400> 32867  
  
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 cgtgtacgag aggcacgagg cgaagaagga cccggagcac gcgcagcggc acaagatcga 120  
 ggagggcgctg gcggcggttg ctgccctggg cagcggcggc ttgcgcgttcc acgagcacca 180  
 cgacaagaag gaggccaaag acgcggcgga ggacgccggg gaggaggagg agtcgggccg 240  
 ccgcggcgag gggaagaaga agcaccactt cttcggctga tcgggctgct gctcgatcga 300  
 tctacttgcg tacgtaggct gtcctccagg accagaagga gcatgcatgg agggcgaacg 360  
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 t 421

<210> 32868

<211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-H3  
  
 <400> 32868  
  
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 gtctctaaca cccttacgtc catctaggcc gtcctctagc atatgctcca gttgctatct 180  
 tgcattctat ttacaggt tactgttatt aactctcaca cttgttcttc ttctctatgt 240  
 ctcttcaact attacttatg acaaacctat taaatcatct gttactctcg tactataatc 300  
 aa 302

<210> 32869  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-034-Q1-K1-H4  
  
 <400> 32869  
  
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 acgggctaata taaggccggg gcatccctct tctagctcgt ttcattatcc atggctgagg 120  
 agaagcacca ccaccaccac ctgttccacc acaagaagga cgaggagcag gccgcggccg 180  
 gcgggtacgg cgagtccgcc gactacacgg aggcacggg gacggaggtc gtgtccacgg 240  
 gcgagaacga gtacgacgag tacaagaagg aggagaagca gcacaagcac aagcagcacc 300  
 tcggcgaggc cggcgccatc gccgcggcg ccttcgcact ctacgagaag cagaggcgga 360  
 agaaggaccc ggagcacgcg caccgtcaca agatcganga tgaggtcgcg ggcggcgcg 420  
 ccgtc 425

<210> 32870  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-H6

<400> 32870

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tgacgttgca atctcttacg acacaatcgt gaagggtgatt cacatcgctt acacattaca 180

ggtacaggag caacctgctt tcgaccaga gtcaatgtga tattacataa aaagatacat 240

catgaatttg actgctgagt gctacactta tactgcacat gtcatgtcat tggacatcgt 300

cggctctaaac taatgcttaa ctagcaagct gttggacctt gaatccgtcg atcccgatag 360

cttgaatgac gatacgctcg a 381

<210> 32871

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H7

<400> 32871

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aaactgttca gattgcaata tctgcattgc aatcagttct ccaggaagat ttcaaggcca 120

ctgagatcga agttggtgtt gtgagaaaag aagaacgtct tttcagagtt ctcaaacag 180

aggagattga ccagcacctg acggcaatta gtgaacggga ctgagctgcc atatgttgga 240

catttgatcc ctacacactg cgccgtgccca ttgtgcttca gcactgccat ttagtttgac 300

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<210> 32872

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H9

<400> 32872

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ttgttgctcg ctcggcttcc tacctctctc ttcccatggc cggttccag acccgctcg 120



actccatcgc cggccagtcg ctgccccatg ccgagctcct ggcgccggat cccctgtgag 180  
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 gagttttaag cacgcttctt ccctgctgcg cagctccctc agcgttcctc ccgtgcttgc 300  
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 aactgctttg ccttccatgg ccgcgtcaag cttgggaccc tgcttgct 408

<210> 32873  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A3

<400> 32873

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 ccgtccccgt tagacgatcg aggcgagaat aacgcatagc tctctgctac cggcctgtct 180  
 tctgccgtcc cggccgttta atttactagt gtgttcgtcc tataatgttta gcagcagcag 240  
 gtgtattgtg cgggtatgta atgggtattgc aactatattg ggtgtaaaac cataataaat 300  
 gtgggcatga tatgcaaggt 320

<210> 32874  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A7

<400> 32874

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 ggctcttgag cttgcatgga tgaacaacat ggtggacttt gccttcccgt acctgttgca 180  
 gttcattcgt gaatacacta gcaaggtgga tgatttagtg aaggacaaga tcgagtcgca 240  
 gaaggaagaa agagccaagg agaaggagga gaaagacctt gtggctcagc agaacatgta 300  
 tgcgcagctg cttcctctcg ctttgccggc gccgccaatg cctggcatgg gtggctcctc 360

acctccgatg ggtggaatgg gcatgcctcc catgggcggg atgggtatgc cgccgatggg 420  
ccctggtcgg atgccagcat tcgg 444

<210> 32875  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A8

<400> 32875

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tctgcgccgc cgccggtgac tgetgatccg cccgccgccg ccgcgcccg tgetctgtca 180  
cgcaggaggc gacggtatgg cgtcgaggca gcacaatgca cagttccaca aatccaagac 240  
gctcgacaac aaatacatgc tcggagatga gatagggaag ggggcgtacg gccgcgtata 300  
caaggggctt gacctggaga atggcgattt cgtggccatc aaacaggctc cgctggagaa 360  
cattccgcag gaggatctca acataataat gcaagagatc gaccttttga aaaatcttaa 420  
tcacaaaaat attgtcaagt atctggg 447

<210> 32876  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G4

<400> 32876

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cagctggtac gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180  
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atgccttcaa catctctccc gttgcccttg tgcacccaa catgccgcca acgtcgacgc 300  
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360  
agggtgctac aacggggcgac ttccaggttg ccgtggagga cgatgtgctc atcatcaaga 420

gcacg

425

<210> 32877  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-034-Q1-K1-E1  
  
<400> 32877

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tatccccaga gtcagggatg ggtgttccca ggcgttggag aattcatatg ctatgataag 240  
tacctgcaag cagacttcaa agcagcagca gaagaggctg ggcattcctga gtgggatttg 300  
cctgatgatg ctgggacgta caatgacact cctgagaaga cccagttctt tggcgataac 360  
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<210> 32878  
<211> 348  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-034-Q1-K1-E10  
  
<400> 32878

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gaaaaatcta tgagcatgcc angagttaca ccagtatcct gagctgatga agctgcgtga 180  
gaacgacata ttccagatgg tgtatttccc ggtgataaat gaagcctgtc gagtccctga 240  
ttagggatgc gccgtcaatg cttctgacct agacatcagt tcaatctttg gcatgggggt 300  
cccaccttat aggggaggtg tcatgcactg ggcagattcc atcggcgc 348

<210> 32879  
<211> 330  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E2

<400> 32879

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tccacgtggt gctacgcaca aattcgatgt ataaaggccc ctatattgaa accaagttcc 180

aatgttttac acgtagttaa acatgaaaac cctggggaaa cccaccttat ttcccttgta 240

ataaatatccc tttaaaacac ttgttttaaa aactaaaaga ccctcaacaa tctcctttcc 300

aaacagtctt ttcaacctgt ttgcgaaatg 330

<210> 32880

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E4

<400> 32880

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gatggaccct acctgcggct gaaccgactc cagggttggc ggaccgttaa gcataaaaga 240

taactcttcc cgaggcccca gccagcgtat ccatgatttc taacatcgtc agctgcattc 300

acgtgccggc tctggaaatc tcaacgcgac tccctttaag acgacgcgcg ttatcgctct 360

atgtgcacag tttaacctaca tcattaagat ctgctt 396

<210> 32881

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E8

<400> 32881

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caggaggctg caggccgcgg cacaacggag ggcgtcctcc gtgaacgtcg agctccggcg 180  
tcctcgaacc tcggcctgct tcaagtgggtt aacggttggc cagcggacct gttcgaaacta 240  
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<210> 32882

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E9

<400> 32882

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gcatggcagg agttacacca gatcctgagc tgatgaagct aagtgagaaa gacatagtcg 180  
agatgggtgtt tttcccggtg ataaatgaag cctgccgagt ccttgatgag ggtatcgccg 240  
tcaaggcttc tgacctagac atcgcttcaa tctttggcat ggggttccca ccttataggg 300  
gaggtgtcat gactgggca gattccatcg gcgcaaagta catccatgga aagttggagg 360  
agtggacaaa gcggtatggg ggcttcttca agccct 396

<210> 32883

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F1

<400> 32883

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ccactacctc tatgctaaac cagtaattcc atcatataaa gggctcctca tcacatctgg 180  
gtccatttt ccatacgatc ctcataatag cctgtccacc ctattaccat gccactttct 240  
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 ccaatgcccc cttctatttc tacacacttt ctaacgtcgt aatctgacga tacatcccaa 180  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gatcaccaac agtgccttcg agccattctc catgatggcc aagtgcgacc cacgccatgg 180  
 caagtacatg gcctgctgcc tcatgtaccg tggatgatgtg gtccccaagg atgtgaatgc 240  
 tgctgtggcc accatcaaga ccaaacgcac catccagttc gtggattggt gcccgactgg 300  
 cttcaagtgc ggcattcaact accagcctcc tagcgttgtg cctggtggcg acctggccaa 360  
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<210> 32886  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-F3  
  
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tacaatacac ccaaatacag atttgttgag cgatttacca acatggacat cacagcacia 120  
atcatctctg ctagtatagc aagtgatatg gatcttgctt ctgcttactc gcatgagttg 180  
ccacgatatg gtcttgaagt tggctcgacc aactatgcag ctgcctactg cactggcctt 240  
ctgttggtc gccgtgtgct caagaccgt ggtttagata aggaatatga gggcaatgtt 300  
gatgccactg gtgatgattt ctctgttgag ccagctgatg agaggaggcc tttgcgtgct 360  
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<210> 32887

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F4

<400> 32887

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tgcgtctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgcccggcg 180  
cgagctcacc gccccaccg agggcatcgg caagccgctc gccgaggtgc tcaaagagct 240  
cgggaagagg gttccggact cccttgtcaa gaccgcgctc gagaataatg gcttcgctat 300  
caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360  
gggtgaggta cgcagcattg tttactcatt tgacgggaaa acagtatctg gtgtctatcg 420  
agtgactc 428

<210> 32888

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F6

<400> 32888

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gccgtccgaa ttgttgtctg gagaggcgtt ctcttgact gaccggtcct aagctctgtg 180

gaaaggtacg cctgcgacgc ttagtgcccc gtccctgccc gaccctgtct ctccacgatg 240  
cgccgtcaac tagtcaggtc gtttgccaat gcaccctaaa tcatgcgggc aactctgtcc 300  
atggcttaat acatgc 316

<210> 32889

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G1

<400> 32889

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accctttcac cagggcggtg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180  
cggcgatata gtagaggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240  
gcggtgccc gatgccaccc gccgcgcccc ggatggccac cttgcgctcc ggattggccg 300  
aggacgcgta gccgcgggtg cggcggtatga gctcgccgt ggacttcagc agcgacagcc 360  
tcatggcggc ggctgggtcg gggatcactc gctcgggcgt gtctcgctgt ggattgggtg 420  
ggggagc 427

<210> 32890

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-G10

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cagccttctg atcgtcaccc atggccactg ccgagggtcca gaccccgacc gtcgtggcga 180  
ccgaggaagc gccgggtggtg gagaccccg cccgcccgc cgtcgtgccc gaggaggctg 240  
ccccgcgcgc cgaggccaag gtggaagagc cagctgcccc ggccggagacc gagccagctg 300



ccgncgctga gcccgaggcg gccccctgg cggcggagga agagacgcca aaggaggaag 360  
agacggcaaa ggaggcggag cgggagccgg agccccgcg 398

<210> 32891  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D8

<400> 32891

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ggggacaaat atacaaggcg gggacggact cccgtcctga cgggtgccttg cttccggctc 120  
gtgcctgcga ggccttgctt tttatccaag gggaggttcg ttgaatcgat tgccaccac 180  
tttacaactt cttgaccggg aaaacccttg gtttaccact cttactcgct tgctaccact 240  
tacccttctt cctaacggtc tttcacacaa tctggctcga gccaaagctca cttccctcct 300  
ttttccccgc ttatttcgcc aatggcactc cctttgctgc ggttccttta gatcggagac 360  
tggg 364

<210> 32892  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G12

<400> 32892

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cagatacgaa tcacggaaac ttgctctctt ctgaagcgca gaaccagaaa acccacggcc 180  
tgttgcttga ttagaaaaag gagatccacg gcctgtgagt aactacgcca tgttacgaat 240  
cacagcctga cttgctctag atgaaagcat aggtagtgcg gacctattgt tttcttctca 300  
gcggaaccaa tgagtaacta cgccatgtta cgaataaaag cgagggaata tcggatgagc 360  
aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaac 417

<210> 32893

<211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-B6  
  
 <400> 32893  
  
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 tgtattactt tactacactc atatccatca atcaaaaata aatcaaatca aactatactc 180

<210> 32894  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-B7  
  
 <400> 32894  
  
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 agatacgtgt ggcagatttg catggtacgg ttcatttatc aaattatgcc caccctctct 180  
 ttgtatgttg tggctccatg tgcgagcacg ctgtctgtcg tgacacctgg ttcgtcagat 240  
 gttttgtcaa acttgcttgg cttgattggg tgtacttgta cctgtaagag ctgatagtta 300  
 tatgaatggc ttggac 316

<210> 32895  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-B8  
  
 <400> 32895  
  
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 cacacgggcg tcatgggcct cttctacatc ctcgtggccg accacgcccg gcagctgccg 180  
 ccgcaggagg gcctgtgctt cagcttcccg gtcccatggt gcctaccgtc atggctgtcg 240

agcaacctgt gagatctttt ggtgttgaaa gctggtgcta tgttctaatt agctgcttgg 300  
 ttaggggttcg gttcggggct ggtgatggta gggcaaatta agcaaggaag gccgcgtggg 360  
 tccttgcggtt actcatacag tagtagtaat gtaaaaatat agaagcagcg gtcagtctac 420  
 tc 422

<210> 32896  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C1

<400> 32896

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 tgatccaact agccttttcg atatacagat taagcgcata catgagtaca agagacagct 180  
 cctaaacata ttgggagctg ttacagata caaaaaatta aagggaatga gtgcagaaga 240  
 gaagcagaag gtcacaccgc gcaactgtcat gataggaggg aaagcggttg caacatacac 300  
 taatgccaaa agaatagtga aattggtgaa tgatgttggt gctgttgtga acaatgatcc 360  
 cgaagttaac aaatatctga aggttgtctt tatcccaaata tacaatgtat cagtggctga 420  
 agtgcttatt cctg 434

<210> 32897  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C10

<400> 32897

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 ctctctcagc ccgagatccc tccccaccga gatcccgcgc cgccatggtg tcgtgacggc 180  
 ggcgaggcg gcgtcatgga gcgggagccc aagtcccccg acgaccgccc tgagcccgt 240  
 gcggcgggcg cgacagccga gccgctggag tggcggtttg cgcaggtctt tggcgagcgc 300

gccgcgggag aagatgtgca agatggtaat aaattcaacc ggccgctggc ctcttcggat 360

c 361

<210> 32898  
<211> 325  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gtggccatgc cactcagagg atcagatggc gcgtgggtgcg tgtgccgacc ggacgtgtcc 180  
gatgcggcgc tgcagaagac gttggactac gcgtgcgggc acggcgcgga ctgcgccgnc 240  
gtgctcccga ccgggccgtg ctacagcccc accacgggtgc gcgcgcactg ctctacgcc 300  
gtcaacagct actttcagca gaaca 325

<210> 32899  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C12

<400> 32899

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ctgcggcatc caccgtcaac tcaagcgtg gcaactggca agggcagatg atctgtgtat 180  
agcactcgct accttctctt gatttcccc tcaggctcgt gaccaagggt cctgtccgcc 240  
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caccgctaga cgccacgcct gcggtgcctt cccgggtgaa tcgcctattg cctaggaggt 360  
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<210> 32900  
<211> 432

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-C2  
  
 <400> 32900  
  
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 ttgatccaac tagccttttc gatatacaga ttaagcgcac acatgagtag aagagacagc 180  
 ttctaaacat attgggagct tgttacagat acaaaaaatt aaaggggaatg agtgcagaag 240  
 agaagcagaa ggtcacaccg agcactgtca tgataggagg gaaagcgttt gcaacataca 300  
 ctaatgccaa aagaatagtg aaattggtga atgatgttgg tgctgttgtg aacaatgatc 360  
 ccgaagttaa caaatatctg aaagttgtct ttatcccaaa ttacaatgta tcagtggctg 420  
 aagtgcttat tc 432

<210> 32901  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C3

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 cggcgactcc ttcagcgcca cctccatcaa ggctacgtg gccgagttca tcgccaccct 180  
 cctcttcgtc ttcgccggcg tcggttccgc catcgcttac gggcaactga cgaatggcgg 240  
 cgcgctggac ccggcgggcc tgggtggcgat cgcgatcgcg cacgcgctgg cgctgttcgt 300  
 gggcgtgtcc gtcgcggcga acatctcggg cggccacctg aaccgggccg tgacgttcgg 360  
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<210> 32902  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C4

<400> 32902

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ttcttcatca gtaacgcgcc aacaatggga tggctggaca ggcaagccat ctgctccgtg 180

gtccttgctt tctacgggac cgtctacagc ctggactacg accagctcgg cgagctcggc 240

aacgggctgc gcgattcccg ttgggcgatc atcagggtcg agaggccga cgaggcgcag 300

aacctgtctc aagatctcga cgacgcctgc agggg 335

<210> 32903

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C5

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agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgtcatg 180

ataaattaca gacaaattct gaaaaggaag agtcaccctc aaccgcattc caatgaacca 240

tacaatgtgg atgctaaaat tgatgataca acatctctat gcgaagaaat aatccatgac 300

aatacaagta taaatcctag agaaattgaa gagataggag aaaacaaagg accagacttc 360

acttctgaac cttctgtaga atcatccata cagaacaat 399

<210> 32904

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agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgtcatg 180

ataaattaca gacaaattct gaaaaggaag agtcacctca accgcattcc aatgaaccat 240  
acaatgtgga tgctaaaatt gatgatacaa catctctatg cgaagaaata atccatgaca 300  
atacaagtat aaatcctaga gaaattgaag agataggaga aaacaaagga ccagacttca 360  
cttgtgaacc ttctgtagaa tcatccatac agaacaatgt tgaagactca agcagtcatc 420  
ac 422

<210> 32905  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C7

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catgcacact cacctattcg tcatgatcta ttacatacta atcatactaa ctaataccca 180  
cctgttccac actacattta tcctctcaat gagcatactt taatacacca t 231

<210> 32906  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C8

<400> 32906  
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acatcattca cccatcacag aatattatcc catatcacac ccaccatagt atatatatac 180  
atgcatacac ccctcttcgt catcattaat tactaacaaa ccctctacat cactattcac 240  
ctaccaccta ttccaactca ccatacaatt tcgtactac cactgatcat tcattctctt 300  
tattctaacc tacaatccac gacaacacac ctctaaatcc tatatcacc tcatacataa 360  
tataaaacac cctaccatac ttcacttctc atcctt 396

<210> 32907  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-C9  
  
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 ccctctccg cggcgcgggc tcgccgggccc ttcttccccg tcgcgcgacc tcaccaccgt 300  
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<210> 32908  
 <211> 158  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-D10  
  
 <400> 32908  
  
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 gtacactggg gaactcgctg cgctctttga gtctactg 158

<210> 32909  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-D2  
  
 <400> 32909  
  
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 tgctctaaca catcattctc ccttaccttc aaactgtcct agcatatacc tacgcacac 180  
 aactctct 188



<210> 32910  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D3

<400> 32910

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acgttcaatt aatgcttgtg tatgcatgta tgtgccaata tgatgtgccg ttgccttggg 180  
ccattcattt cccctttttt tgggggtgaa atagatgtaa agatctcgtc ttgcctgccg 240  
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gatttcttgg ctcctt 316

<210> 32911  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D6

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gaccgtctgc tagtattccc tgctgtttgg tgttatcgta tcagaagacg tctgtagatg 180  
tacaattcct caggccccct gtgttcggct tgaggaagtt tccgttgtac cctggacctg 240  
ctatatccgg ttgattcttc aattgtattc ctaaaagtta ctacacac 288

<210> 32912  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B5

<400> 32912

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 aaaaaaaaaa ataacctcgt ctcttttcaa tcttccactc ttatctcctc tctatttcaa 180  
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 taatgatc 248

<210> 32913  
 <211> 184  
 <212> DNA  
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<223> Clone ID: LIB3068-033-Q1-K1-G8

<400> 32913

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 tatg 184

<210> 32914  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G9

<400> 32914

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 gcacaaccag ctgacgggca gcatcccggc ggggctggtg caggggagct tccgggtcgt 180  
 ggtcctgtcg tacaaccagc tgacgggccc gatcccgcgc gacgacgcgc gcgacgagat 240  
 caacaccgtg gacctctccc acaacaagct gacggggcgc ccctcccacc tgttcgccgc 300  
 cggccggccc atcggaagg tggacctgtc gtggaactac ctcgacttcg acctgagcca 360  
 gctggtgttc ccgccggaga tgacgtacct ggacctgtcc cacaacctca tccggggcac 420  
 cgtgccgctg tcgctggagc ggcttgccac gct 453

<210> 32915  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-033-Q1-K1-H1

<400> 32915

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acctcaagcg ctccggcaag atggagctcc ctgagtgggt tgacattgtg aagactgcga 180
ggttcaagga gcttctcctt tatgatcctg actggtacta catcagggct gcatccattg 240
caaggaagat ctacctaaagg caaggcatcg gtgtgggtgg ctctcagaag atctacggtg 300
gccgccagag gaatggctcc cgcccaccac acttctgcan gagcagtggg gctgttgacac 360
gcaacatcct gcagcagctg cagaatatgg gcatcatcga tgcgatccc aggggtggac 420
gcc 423
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<210> 32916  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-H10

<400> 32916

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taagctcaac aagcagctac cgtacctcgt cggcaacatc gtcgagattt tggaaatgaa 180
ccctgaggat gaggctgaag aagatggtgc taacatcgat ctggactcac aaaggaaagg 240
aaaatgtggt gttctgaata catacaccag acaaaccata ttacttcttg taattggatt 300
agttgacccc gataagctaa agcctgacga tttagatgca gttaacaaag acagctactt 360
gatactagat acattgcctt cagagtatga ctcacggatt aaggcaatgg aagtagatga 420
gaaacctact gaagattaca atgaca 446
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<210> 32917

<211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-H11  
  
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 acatcgtcga gatttttgaa atgaaccctg aggatgaggc tgaagaatat ggtgctaaca 120  
 tcgatctgga ctcaaaaagg aaaggaaaag gtgttggttct taatacatte accagacaaa 180  
 ccatgttcct tcctgtaatt gagttagttg accccgataa gctaaagcct ggcgatttaa 240  
 taggagttaa caaagacagc tacttaatac tagatacatt gacttcagag tatgactcac 300  
 gggttaaggc aatggaagta gatgagaaac ctactgagga ttacaatgac attggcggac 360  
 ttgagaaa 368

<210> 32918  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-H2  
  
 <400> 32918  
  
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 tccgggagga ctgtgacagt ggcaagcgcc cctcgaggcc ctaacggcct actgcggcca 120  
 cctcaagcgc tccgagcaga tcgacctccc gtctagctgg cagacatgac tgaaaactcg 180  
 ttcagttcaa ggagcttact ccgtatgac ctgactgcta ctacatc 227

<210> 32919  
 <211> 135  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-H8  
  
 <400> 32919  
  
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 gcgtgtgtgt atgcatgtgc ttgtgtatga tcgtggtacg aggaccgaaa aaatgtatgc 120

aactctgatt tactt

135

<210> 32920  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A2

<400> 32920

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aaaggatgag ctgccccgcc atggcacagc tcctctccaa taccctgtac tacaagegat 180  
tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgcg 240  
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgct caaggaacgg 300  
gatctacttt gatcatgccca gtcttgaca atcaactaaa atcaccaagt cctctattac 360  
tcctgtcag ggatgctgtc acaccattgt cggagtcaga ggccatcgat ctagttaaag 420  
acgtgttcgc at 432

<210> 32921  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A3

<400> 32921

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gctttcaagg tgaggttgag gctctgcaga agagcgtagc tgccagagaa ttgctgtacc 120  
aacaccagca taataaaagg atgagctgcc ccgccatggc acagctcctc tccaataccc 180  
tgtactacaa gcgattcttc ccatattacg ccttcaatgt gctcgggtggg cttgacagcg 240  
aggggaaagg atgcgttttc acctatgatg cagtaggttc ctatgagaga accggttaca 300  
gtgctcaggg aacgggatct actttgatca tgccaatcct ggacaatcaa ctaaaatcac 360  
caagtccctc attactccct gtcagggatg ctgtcacacc attgtcggag tcagaagcca 420  
tcgatct 427

<210> 32922  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-A7  
  
 <400> 32922  
  
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 tataaccaat tctataagat agctttatat cctaggactg gaatccaata actatctcat 120  
 ctctaacatc actataataa aaataaccta tctcactaca atcttaaaac atctcatata 180  
 cacctatfff caactaaaac aattccaaca ctttccacat acttctttac aattatacga 240  
 tgattcccca tctatagatc aaaaaacaac ttctctatca acacttatct acctcacacc 300  
 aaatatccct ttgtgaacat tactaacacc tctatcttcc cactc 345

<210> 32923  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-A8  
  
 <400> 32923  
  
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 atgctgcacc tgaaccagca gcagttgccg aacggcggcg agggacaggg agaggacgat 120  
 gcgtacaaga tcctggttat ggatccgcc tgtatctcca tctctctgcc tgtgctcaag 180  
 ctggcgacc ttgccacca aggtgtcacc ctaccctcg ccatcgatcg tccgcggcag 240  
 gcggtgcccg atgcgcgggc cgtctacttc gtccggccca cctcgggaa cgtggaccga 300  
 gtagcggccg acgccgccgc ggggctctac ggggtcttcc acgtcaactt ctccaccttc 360  
 gttccgcgac ccctgc 376

<210> 32924  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-A9

<400> 32924

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tacgatggcc gtcttctccg acctccacac cgtcgacggg ctcaagtccc tcgaggcgtc 180

acctcgacag caaaacctat gtgtctggtg actccattac taaggatgac atttaggtct 240

tcgccgcggt gccgtctaag cctggcgctg agtttccctaa tgccgccgcg tggtagcaga 300

ccgtttctgc agctgtagcc tca 323

<210> 32925

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-B10

<400> 32925

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tgggctcctt cttctggacc ttagtgacgc cccctccggc cgccgacgac ccgaactgcg 120

ccgtggtggc cgcgcactcc aaggccacct acgacgagca gtgggcggcc cacaagagca 180

gcagcaagct gatggtgatc gacttctcgg cgtcctggtg cgggccctgc cgcttcatcg 240

agccggcctt caaggagctg gcctcccgtt tcaccgatgc catcttcac aaggtcgacg 300

tcgacgagct cgcggaggtc gcaaggacat ggaaggtaga ggcgatgcc aagttcgtgc 360

tggtaagga tgggaaggag gtangccgtg tgattggg 398

<210> 32926

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B11

<400> 32926

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atctttatcc ccaggcggtc gacacctaag cctaccccgt ctacgttcac tccaagcctc 120

aaacctacga cgcccaagcc tacctcacac gacgtacact tattcccaca agtcttctac 180

acctaagccg acccattccta cgtacactcc aaaccctaag ccaccggcta ccaagcctac 240  
cacgctcaaa ccgaccccggt caacgtacac cccttctca aacccttcga cactcaagcc 300  
gacctacacg acgtacact 319

<210> 32927  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-034-Q1-K1-B12  
<400> 32927

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aagaatacgt acttggttggg ttggtgccag tccatgacct actgctgcgc taacttccct 120  
gatgacaagg gtgccagggc cattgtcaaa gccttccac acataaaatg cactgtgctg 180  
gcccctccca agatcattgc caccaaaccg gccgatggag cgaagataaa ctatgtcgaa 240  
ggtgacatgt tcagtttcat tccacctgct caaactgtcg tgctaaagct tgtgctgcac 300  
cacctgaccg atgaagagtg cgtcaagctc ctgggtcaat gccggaaggc gattcctcca 360  
cggaaggaca gcgggaaagt tataatcggg gatattatga ttgaccactc tgggcttatg 420  
ctggaaactc acctgctgat ggaca 445

<210> 32928  
<211> 303  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-034-Q1-K1-B3  
<400> 32928

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tcttgcttgc ggtctgatcc aatgacacct tccattgggg cgcgaacacg ctatcgagcg 120  
tctaagcaat cagctagctg agtcaccatg cgctcacgcg taatcagtct tagacgcgtt 180  
cagacataat ccagctcacg atagctatgc gccactggat taaaaccaa tcgcgatgtc 240  
cagttgtgtg aatcatcagg tcctctcgta ctagggtgaa ttactatggc ggcccgtgta 300  
taa 303



<210> 32929  
<211> 487  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-033-Q1-K1-G7

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gacagtcctg nncgttatct tgttaaccag agtgtgctcg cctcctagcc aaaccttccc 180  
cactctgacc aatgtnnctt ccgctcgggn natcggcccc gcgtaggcct ggnngccttg 240  
gagccaaaag ggaggggtgtc ggtgccccgc tttccgaacc tcacgganna taagtaaaat 300  
aacccgtaa aagtanngtg gtatttcaact tttgcgcccc gagggctccn ncacttatcc 360  
tacanncctc tcaaggtcat ttcacanaag tcggacttag agtcnaagct caacaggggt 420  
nncttctttc cccgcttgga ttccgccaaa agcccgttcc cctttggctt gtggttttcc 480  
gctggat 487

<210> 32930  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E5

<400> 32930

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ctcgtgaaa ccctacagca cactcccaaa ttgctagcat tgcattctaa cttataactca 180  
gctagtcatc atacagcaaa catgcatctt aatcccactt tctatcaaata caatcgctat 240  
caccaatatt gtgaatcaac agatcatgta gcactaagct atacatctat gatagcaaag 300  
ccattactca gcacaaactt acatttcaca ctacaatcta caccatctt 350

<210> 32931

<211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-E7  
  
 <400> 32931  
  
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 tgacgatgcg caagacggcg gcgaaggcaa agccggcggc gagctccggc agcccggtgt 180  
 acggccccga ccgctgtctc tacctggggc cgtgtgcccg cgcgcctcgc agctacctga 240  
 caggcgagtt cccggggcag tacggctggg acaccggggg gctgtcggcg gaccgggaga 300  
 cgttcgtaaa gaaccggtag ctggaggtca tacactcccg ctggggccatg ctggacgcgt 360  
 tgggctgcgt gttcccgag ctgctcgccc gcaacggcgt caagttcggc aaggccgtgt 420  
 ggttcaaggc cgtgtcgag atcttcagcg 450

<210> 32932  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-033-Q1-K1-E8  
  
 <400> 32932  
  
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 agaggaccct tgcctatggg tagagacaaa caacactaca ctcagcctac tttgttcgaa 180  
 tgctgaaatc accctggggg ttctcatgat catctcgctt ttctcgtcga gacgcaatat 240  
 aatccagaca tttatgtact ttcatctttt gaagttgatg taccattctc ctgtgacatc 300  
 tggttaccac cagagcgtgt gggcaagaat aggcggggct gtaaaccggt acatntaccg 360  
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<210> 32933  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-033-Q1-K1-F10

<400> 32933

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tcatgtgtat tatgctcgag gagaggatga tccaaatttc tttcgcagat gctactggct 180  
acttgacaaa gagttggagc gcattgtcct cgtgcattat cgtcaaacad ctgaggaaag 240  
tgccttacca ccttcgcatg tagaagctga agttgcagaa gtgcctcgga tcaatatgat 300  
tcattacacc tcctcaacag attcagcctc tgctcatact gagctatctt cttctgctgc 360  
tgctgcacca gaagatatca actcaaattg tgggtgngcg gtttctagtg ggtatacttc 420  
tgtatcttct ttgggtgagt ttgcagaaac cgacaatc 458

<210> 32934  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F3

<400> 32934

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aaggtcgcag tatcagatga ggaggacca gatcgatctg cccttaacaa tgcctggaaa 180  
tcatggatgg aagaacacat agcggccacg ggcaaggcgc caccaggga cgttgcagga 240  
aaccacacct gggttggtgg tgccccccag cgggtccccg acctgcgtct gacgcctgga 300  
cgccacgtcc agctgacggt tccgctggag cagctgatag accggctggt gaaggagaac 360  
aggatggtgg ccttcatcaa aggatcaagg agcgttccc agtgcgggtt ctcgc 415

<210> 32935  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F5

<400> 32935

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aaacaaacct tcacagaaat aatgggccta aagacgatca ctgaccgaga agtggcatgc 120

ttcatgacat catgcaagaa ctgaccaac attgattctg tcattgactg gctgggtgaag 180

aactcgaaaa agaagaattg aacttaaadc tgtactagct attaaagcgc acgccaatct 240

ctctatTTTT gcatgtcgca tagcattgga gctgtaaatt atgcaagagg tattaatcag 300

ggatgttggtg ttcataatTT tgTTaacctg gTTtagcagt atgttgggtgg acagcgtctg 360

gtattgtgca cggccgtgct ctgaggctgc ctctgtgtt ccaactcaatt ttagctgtgc 420

gatttgttca 430

<210> 32936

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F6

<400> 32936

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aaaaaaaaatt ttacaaaac aaccatccaa cctaactcac cactactata ctgccaccta 120

actcccatct actcaccctt aatttacaac ctcttaccta tcatttccac cgtcgtctcc 180

catcaaaacc cccttgttac ccactctact ttacccgact cgcttaatca tttccacccc 240

tactcttata tctcttctaa cccttcacc atcctttctc accactacta cactctctat 300

ctccaatcat tatcccc 317

<210> 32937

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F7

<400> 32937

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tttacaaggg ccgacggagg cgcaccggac accgcgcgat gtgcggtgct cttccggccc 120

atggaacata gctccatctg aaccgattcc aggggttgcg gaccgttaat cagaatagat 180  
aactcttacc gagggccccg cctgcatctc cggacttcct aacgtcggcg tctgccgcca 240  
cgtactgggt agtgaaatct taacccgatt cccttttagga tgacgctcgt gatcgcgcta 300  
tctgatgggt tccccctta ccttaggatc ggcttaccga tgtgcaagtg ccgtgcacat 360  
ggaacctttc tctcttcgt cctacaaagt tctcatttga atatttgta ctaccaccaa 420  
tatct 425

<210> 32938  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F8

<400> 32938  
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aaaaattata aaaaaaaaaa acgcaaaca aaatataaaa ataaaaaaaa aaaaaaaaaa 120  
aaaaaaataa aaaaaaaca tataaaccat tattaattat aatataaccg ttataagac 180  
taaacaaact acagtgaagc ctctaactta aacagacaag ataaatataa atgagactaa 240  
aatataaaac ttaaaaatta ataaaaacat ctattaccaa aataactaca cacgatacat 300  
cacaatatga tgaactcaca ct 322

<210> 32939  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F9

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tacagcaaac tattagcttc tcttcaaact ttcagatgca catataattt tgagataagg 180  
ttgacatctg ttcaagctga gccgtttaag aaaattatct tgaaggcaat cagtcctc 240  
acagaggaag tgcagaatgc cagagctttg gtagatgggc aactgttttc agaagagatg 300

aacataagta cagaggaccc acaccaagtt gattttcttg tgccattcaa gaatgctgtg 360  
 cctgttgaag aatgcagttt agagggagtt gctgggctca ttcgctttat tggatctgtc 420  
 agcgccttgg catatttagg ccctaaagaa tctatttcag aa 462

<210> 32940  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G10

<400> 32940

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 ctatgctagt caactaacat gacaacatgc tattcgtaca gtgcatttgc aactagcata 180  
 agttattgta aaagtcgctt atatcataag atatgccgca ttacgagcca ttgctaaaag 240  
 tgatgtacag ctaatatgta tactccatat atcacctatg cagcatcatg tatgtaaacc 300  
 tcctaaacaa agacatctgc aagatataat tataccgcat ctacataaac ttcgacatga 360

<210> 32941  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G12

<400> 32941

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 ccacgatcca tgtgacgcct gaggatgggt tcagctacgc cagttatgag gttatgggct 180  
 tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttctgcc 240  
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 gaaaggaact tgggtcggag gcttatgact gcaacaacat ggtcgaacat gagctgcctg 360  
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 ccaaatccgg tcttcgctgc ttt 443

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 aaaaattaaa aaataaaaaa aggtaaaaaa aataaaaaaa tactatacaa ataaaaaaag 120  
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<210> 32943  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-G3  
  
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 ttcactcctc tacaatatca acacttacct ccccttacat tctaccactt tacacaactt 180  
 caaaactacc aaaacccaat ccattcccaa cttatttcca actatataac tcatacaacc 240  
 ttacactcac caaatttctt agacttccaa accaccaca tttatccaca taaatatatc 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-E4  
  
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 gccgcggcct accaccagta cgtgctgagg gccagcgcca ccaagctcgg gtcctaccgg 120  
 agcaacgcct aagttccgcc cggacgcgcc aggagctggg caccgttcgg attctgttcc 180

tccacatgac gccctgttct gtttccgtgt ggccaggact ccgcttgctt cctgctgttt 240  
tctacttcgg accaaagtgt gacatatctt tgctttctgt atatgtatgt aggaatgcat 300  
catgtaagga gaatttggaa tacaattgtg tgagttttta tccgatcaca aa 352

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<223> Clone ID: LIB3068-033-Q1-K1-C3

<400> 32945

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ccggggcccc tgcattgagc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180  
cgcgaccac ggctggtact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240  
gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgcctaccg 300  
cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gtcgcccggc 360  
cggcgaggcc gatgccaccg tgaccgcgct ctaggtacga ccagtagtaa atcatcgaca 420  
gaggctagc 429

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<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C4

<400> 32946

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caatctgacc accactggac agtgcaactgt actctacagc aacgacagaa aagtgcgacg 120  
cacacagcag cagctgctgc catgcacgct tggagatctc tctaccgag cttcgtgctc 180  
gccgtgctgg ccgtcaagc cttgctagct gtggccaat ccaagaccgg ccccgaggag 240  
catgcgagcc aagcatgtga cgacgtgaac aagccctact gcgtgcccgt gatagaccgg 300  
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agc

363

<210> 32947  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C5

<400> 32947

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ctacccacag tttcaggctt cagaggagcg atacaacaat cgtggagcat atattgtcct 180  
tagtccacct gattttgcta ccctgtttt ccatagcttc ggagctgtaa agcctcgacc 240  
tgcgggcccat ccgttctatg attttgaaca agtgatcgac tcagatgaag aattggattt 300  
aatcgccatg gacagcggca cgtcgagcct gtcatgacga ctcgccatgt accttttgca 360  
cttaggggtg tatttattat tatcgctcca attgttgcca tggaagcgtg gcatcaaggt 420  
tttttgctgt cgttggtgta agctaattg 448

<210> 32948  
<211> 81  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C7

<400> 32948

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cggaccgact atctacaaca a 81

<210> 32949  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C8

<400> 32949

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caagcacacc accactccac agtgcacttc actctacagc aacgacagaa aagtgagcag 120  
cagacagcag cagctgctgc catggaggcg tggagatctc tcctcgcgag ctctgtgctc 180  
gccgtgctgg ccgcgccaggc cttggtggct gtggctcgagt ccaggaccgg ccccgaggag 240  
caggcgagcc aagcaggtga cgacgtgaag aagccggact gcgtgccggg gatagaccgc 300  
cgctcgctcc cggggaccgg cggcggccac ggcatacgc ccgtgacgcc atcgcacgga 360  
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catggcggga cgctgccttt cccgttccac ggcg 454

<210> 32950  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C9

<400> 32950

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aaaaaaaaagcg aaaaagaaaa aaacaaaaaa aagacaaaca caaacaaaaa aaaaacaaaa 120  
acaaaaaaac aaaaaaaaaa acaaaaaaaa acaaaacctg cctaccaccc aaaataaccc 180  
aaaccccaact ccacagccac caaacttaag aaccctttaa aatacccccc 230

<210> 32951  
<211> 85  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D1

<400> 32951

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gagaaagggc aaaaataagg aagac 85

<210> 32952  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D11

<400> 32952

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gttcgtaata agcaatatta cttctattgt cctgcctttt cacaaacaaa tgatactgtg 180

ttctacctca tggttttcttc accgtcatgt tttctgttgt caggtccttg agctagtggg 240

gtcaccaatt gttcctgtga ctgtcatgtt ttctgtgttt gttcgactat tgcagatctg 300

cagtagcttg tagctccatt tggttgtttc atatcacatg actctgttga cacttgccac 360

ttgctagtgt cgtgcaaccg tggttctatt ctgtctggca taatgctttt tatctcattg 420

taaagagagg ggtcaacggg cactggagca aagatt 456

<210> 32953

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D12

<400> 32953

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ataaaaataa aaaaaaggaa agaaaaaaaa aaacaaaaaa aaaaaaaga taataaaaaa 120

aagagcagaa caagcaatat gacctaatat tgatatggct tgtcacaac aaattatact 180

gcgtattacg atatgtgaat gtaaagcaat atgtttactg ttaaagatc ctaattat 238

<210> 32954

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D3

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ggccgggctg agacaatcac gcgcgccctt gtggccctaa cgcactaacg taggtagccg 120

ctgacggtgt gctgaagcct ctgttactac ctgcaatgct caattagagg cgttcactaa 180

taaaccgact cactgaacct tcgctccact ggcttttaaa ccaagtgcga tgaccacttg 240

tgcgaatcat ccgttgctgt cctactatgc tgaattacta tcgcgcgccg gtcataacta 300  
 ccgtaaaaact aacatgtcta acgacggcat aaacgcagct tacgttacct attgctccgt 360  
 taacacatct acatttactg 380

<210> 32955  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D4

<400> 32955

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 ctgacgttgt gcaacagttc ctagtactgc ctgcaatatt taattcaaga cattcactta 180  
 tagtcagact tactataact tctctccact ggctgctaac actaatacaa cgtctaactg 240  
 tgtgaatcaa cggctcctgt cctgctatgc tgaattact 279

<210> 32956  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D5

<400> 32956

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 tgtattcgag ggggtgcacca agctgcagaa gcttgaggtc agagatagcc ctttcagtga 180  
 cagggggttg ctctcaggac tggactactt gtacaacatg aggttcttgt ggatgaactc 240  
 gtgcaggctg acgatgaggg gctgtagagg tgtagctcag cagatgcaga atctgggtgt 300  
 cgaagtaatc aaggaccact ccgaagatga aggggaggct gagaccgttg acaagctgta 360  
 cttgtatcgg tctactggcag ggccaaggaa tgatgctccg ccgttcgtca ccctcttgta 420  
 gtgctgctgc cgccaccgg 439

<210> 32957

<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D6

<400> 32957

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gttatgtcca attctgtcgc cctataaacg aggcaaagtg tgcattgatt aatataaacg 120  
gaggcaatgt agaaacaata gtagcaccta atataaacag aggcattttt acaactttgt 180  
tctgaacgtg aacgtcttga atccggcaca ggtttttaggc attcctttgc gtgctacact 240  
ggcatgcaac agcaacatgc tgtacagggtg gtgcactcca ttagttctta tggcaacgac 300  
aatcaatttt tttttaaatg acaattattc ttggatagta gatattctgt atacatttgt 360  
ttagtttggt gccttttctt ttctcctaaa cattttaatt aatcactaat tacttagtta 420  
ttgcaagcac ttcaaaaatg aagggccaaa atttattt 458

<210> 32958  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D7

<400> 32958

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tcactagccc cggtcggcgc cgctacgaca tgcgcaccta cgcaactgac cccgtacgca 180  
cccgccatcg ttctgaacac tgcgctcacc gcacaacact acgccattct caatgaacac 240  
ccgcagacct gctattacca gtacaagatg aaccccatca tgcaacgcta catctactgc 300  
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<210> 32959  
<211> 456  
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<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E1

<400> 32959

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caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180

gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240

cgctccgagc cgctcaaac gccaccgcca gcgcgggggc cggctcattc gtcaagggtga 300

gcatggacgg cgtcccgtag ctgcggaagc tcgacctgag gatgtacaag gngtaccggg 360

agctccggga ggccctggag gccatgttcg tcttctttcg cagcgctaac gccacaaca 420

acctgtccga gttcgccgtc acctaccagg acaagg 456

<210> 32960

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E12

<400> 32960

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atgataagca tgctgttcag tttgttctta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaat atgtgtaaca taaataaaaa caaatgaaac aaaaataaaa aaaaatcaag 240

actggggggt ctcttttaggg tacccaact 269

<210> 32961

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E2

<400> 32961

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tgctgagcca ccgcggcgac agcgggtgcc agggcgctt ctacacctac gacgccttca 180  
 tcgaggccgc cagcaagttc cccggcttcg gcaccaccgg cgacgagcag acgcgcaggg 240  
 gggagctcgc cgccttcttc ggccagacgt cccacgaaac caccggtgga tgggcgactg 300  
 ctccggatgg accgtttgcc tgnngatact gccgggtgaa ggaacagaaa cagacggacc 360  
 caccctacta tggacgagga cccatacagc taactcataa gtacaacta 409

<210> 32962  
 <211> 197  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H6

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 caattcaatc atttcaccgt tatcacaaca tatcttacca ccttaaaaat aatgtatcca 180  
 tataacttaa tcccata 197

<210> 32963  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H9

<400> 32963  
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 tcgaccagct gccggtggtg cgccatatct cgcgccagtg gaagtcggag gtggagtcgc 180  
 cggactacca ccgccagcgc cggacgtagg ggcttgccgc cccggtgctc gcgcttgctc 240  
 atgcgcagcc tacagcgccg tcggatgacg actactacat cggcctcgta tacgagcgct 300  
 cgacggcggc caac 314

<210> 32964  
 <211> 456  
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A1

<400> 32964

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caaggtactg ctgcaggaca agctgtagaa ggtattgcga gacagccaga agcagaaggt  180
aaaataagag gtactttatt gcttagtcta gcttttatgg aagctttaac aatttatgga  240
ctggttgtgg cactagcgct tttatttgcg aacccttttg tttaatccta aaaaagaaaa  300
tgagtccttt agattagata cttttttctt tntttagtag attggcattt gcttatgtaa  360
ttctaagtat atcaatactt tactttactc ctatttatta tattatttct ttgttatatt  420
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<210> 32965

<211> 540

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A10

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tctaacttgt gggtagctgg gccgggccgt gcgaggccag aggcntgccg gttggctaga  180
ctttgggnat tctgnnactg tagaggcggt acaaagtcac annatccggc accacagagt  240
agcttttcgc gcccacttgg catttttcaa ctcaagtcgc cgatgacca tatgtgtgtg  300
agatcaatcg gtatccttct cgtactttag gttgaagtta cctaaatcgc ggtcgttggt  360
caattcagta ngnnggtaaa acctaactnn ctgtctcaac gacgagtctt taatcctcag  420
cttcaactgt tccctaaatt ggtgggtgaa accaanntcc aacacttttg gtgannattc  480
tgcttttcac aatgatacgt gaagaagccc cgtacatcga agggaaatca aaaaagcaac  540

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<210> 32966



<211> 399  
 <212> DNA  
 <213> Zea mays  
  
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 aaaaaaaaca aaaaaaaaaa aaaaaaaagc ggcgccccac aacagagacc caggcaaccc 180  
 acccccggca cacaaaccaa aacccccacc aacgcacccc caaaaaaaaa accacgaccc 240  
 caacaaaaaa acccgaggac cgagaaaaaa ccaaagcaac ccccaaaaaa aacgcaagaa 300  
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<210> 32967  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-A2  
  
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 gctttgggtt caacgtcgcc atggcacgtg gccaaacttc caaactgac caatgagcaa 240  
 tcctatagat atgctaattg tcaacaaaat caaagagtca tatagccaaa taaagactgg 300  
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<210> 32968  
 <211> 103  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-033-Q1-K1-A3

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-A4

<400> 32969  
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acaccactc tttcggatct ttgataactt 90

<210> 32970  
<211> 397  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gccgtgagct tgcatcccac ggcgatctac cgctggcggg gctgcctcag cgctgagctg 180  
gcacggcgct gtctctcccc tgcctaagct gccgttcctc cgccgactgc tgcggctcct 240  
cgccgcgtcg ggcgtgtaca ccgtcgacaa gcagagcacg gaggaggagc ggtaccgcat 300  
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<210> 32971  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-033-Q1-K1-B1

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accatggtgg tggaggagat cgccgagggg gtgaaaaacc tcaccgttac cggagatgcg 180

gcggcttcag gcggagaggg gcagaggagg ggcggcggcg gcagcagcaa ccgcatccag 240

gtgtccaaca ccaagaagcc cctcttcttc tacgtcaacc tcgccaagag gtatatgcaa 300

cagcacgacg atgtagagct atccgctctt gggatggcca tagcaacagt tgtgaccgtg 360

gcaganattc tgaagaacaa tggatttgcc gttgaaaaga aaattaggac ctctactggg 420

gaaataaacg acgaatc 437

<210> 32972

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B10

<400> 32972

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gtatagacaa tgtacctgat tagctacatg acaaattatc ctctgatcag cctatttatc 120

aaaagatagc gaacgggtctg cgtactttga tacttgggtct tattctgtgt gcttaccaca 180

gccgaacatt ttccatgtta aatggatatg gagctcccct gcacatctat cactcatcta 240

taacatcatg atgacactgg acccgagact attctgcgag aggcaagcta atggcatcgc 300

tatccatcat cgatcttcat accctcttat atcagtgaag tccggcggat aaatgatggc 360

ttccacgggt tacttccatt taccttcaac gagacactga ctgggaccac tgcaactccg 420

tcctacttca ataacaagaa caa 443

<210> 32973

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B2

<400> 32973

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gcctaaacta attttttgata ttgataagag tgcttattat aaagcaattc ttgcaatttt 120  
tttaagaatt gatttttgca tttttagggtg tcaaaaataaa gaaaacccat cctagtggat 180  
ccgtgtggta aggaaaaatg ggtaatctat tccttaac 218

<210> 32974  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B3

<400> 32974

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tcctccacgg cgatggccgg ccccccatc aaggtgggtt ccttcggcga gggccgcac 120  
accatgcgca agaccgtggg caagcccaag gtggcggcgt ccggcagccc ctggtacggc 180  
cccgaccgcg tcaagtacct cggccccctt tccggcgagc ccccgagcta cctcaccggc 240  
gagttccccg gcgactactg ctgggacacc gccgggctgt ccgtcgaccc cgagacattc 300  
gccagaacc gcgagctgga ggtgatccac tcccgtggg ccatgctcgg cgcgctcggc 360  
tgcgctcttc ccgagctgct ctcccgcaac ggcgtcaagt tcggcgaggg cgtctggttc 420  
aaggccggct ccagatctt cagcgagggc gggctggac 459

<210> 32975  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B6

<400> 32975

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gctaacattc taaaaaataa aaaaataaat aatcaaacat tatttatatt cccttcttac 120  
tttctcttcc tttctacgtt ttcatTTTTT ttttcttttc cttacttttt cttcactttc 180  
cttttttttc cctatTTTTT tcttctatta cccatctttt acccatctt atttgcttta 240  
caccacatcc tcctttcttt aattcccttt ctatccatca gttttttacc attttccttt 300

atcaccatTTT ccccttctg aatcgtcttt tctaccctt

339

<210> 32976  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B7

<400> 32976

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gagcggacag agcattacca aaacacttga taggtatgaa aaaaacagtt atggaggacc 120  
agatactgct gtacagaaca aggagaacga gttagtccag agcagtcgta atgagtacct 180  
caagctgaaa gcgaggggtgg ataatttaca gaggactcag aggaatttgc ttggtgaaga 240  
tctggggtca cttgggtgtca aagagcttga gcagcttgag aagcaacttg attcatcctt 300  
aaggcacata agatccacat ggacacaaca tatgcttgat cagctcactg atcttcagag 360  
gagggagcaa atgctgtgtg aagcaaataa gttgcctaga a 401

<210> 32977  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B8

<400> 32977

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atccgtttta gcattaccaa aacacttgat aggtatgaaa aaaacagata ttgacgacca 120  
catactactg cacagatcaa ggagaactag ttaatccaca ccagtcttaa tgaatacttt 180  
aagctgaaat caaagcttac aaaattacat acgactcata tgaatatgct tgatgaaaat 240  
ctatattcac tttctgtaaa ataacttaag caccttgaga agcagcataa ttcacctta 300  
atgcacataa tatccacata gtcacaacat atccttgatc agctaactga tcttc 355

<210> 32978  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C11

<400> 32978

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caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180  
gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240  
cgtccgcagc cgctctaaac gccaccgcca gcgcgggggc cggctcattc gtcaagggtga 300  
gcatggacgg cgccccgtac ctgcggaagc tcgacctgag gatgtacaag ggggtaccggg 360  
agctccggga ggccctggag gccatgttcg tctcctccgg cagcgctaac gccaacaaca 420  
acctgtccga gttcgccgtc acctaccagg acaagga 457

<210> 32979

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E2

<400> 32979

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gtcgcttgcc accgagccct tcgtcgttcc tggccggcat tgggcacctg caccttttga 120  
agaaaccggt tcaccgaacg ctgtctgctc ttgcggcgca acacgggcct gttcttctct 180  
ttcgattcgg cttccgccgc gttgtccaca ttgccgaccc tgccgtcgcc gcggagtgtt 240  
tgagcaccca cgacgttacc tttgccaacc gcccggggct ttccttcgcc cgctatctct 300  
tcaacgacta caccacgttg ggctcgtcaa gctaccggcc caactggcgc aacacttgcc 360  
gcatatccac cgtcgacatc ttttcctctc atagcgtgct ctgctccgcg gatg 414

<210> 32980

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E3

<400> 32980

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tctttttact acaaaaatta aaagtaaatac ttccttttta aatttgctcc acccgacaca 120  
cttttttt 128

<210> 32981  
<211> 400  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-032-Q1-K1-E4  
<400> 32981

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ttgggaaaag gctttcgctt acgctgtgct atctccaggt ctctactgtc atgttcacca 120  
tccttgtctt ctctctcata atcccttcta tccctttcca ccttcggttc tttttcttta 180  
tcaagacgtc ttctctggcg atcatgtctc acatcaggac ggtcaacact aaagtcacgg 240  
tcagcatgtg atagacaagc tctctccctc ttctcattgt gaatggctct atttgcaggt 300  
ggcaaatagc tctgtctc cgccttaacc aaaccacccc ttgaagatgc cactgcttgt 360  
ggggccactg aagtatcatg cangaaatgc tggaattctt 400

<210> 32982  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-032-Q1-K1-E5  
<400> 32982

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gtttagtcac cggtgttggc agcatgaaaa gcggggagcg tgcattgttg catgttggtt 120  
gggagctagg ctatggcaaa gaaggaagtt tttcattccc aaatgtccct ccaatggcag 180  
accttgttta tgaagttgaa ctcatgggat ttgatgatgt taaagagggt aaatcccgaa 240  
gtgacatgac agttgaagag aggattgcag ctgcagacag gagaaagatt gagggcaatg 300  
catatttcaa agaaaagaag ctggaggagg ccatgcagca atatgaaatg gcgattgcat 360  
acatgggaga tgatttcatg tttcaattat ttggaaagta cagagacatg gcct 414

<210> 32983  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-032-Q1-K1-E6  
  
 <400> 32983  
  
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 ggaaatgcag gccttcttga cccttgcaca tgatgagggc aattcacctg ctgcagattt 120  
 tgtgttaccg aaagctgaat gctttaacaa cgaacaagcg atctcttatg ctctctgctt 180  
 ttctctgcat ccctgctatc ttaggagatt acccttgcgt aagcacgaga tccataagca 240  
 cctacgacgt gactttttacc aacagatcac gaattgtttc agggcggttca ttatcacact 300  
 actccattac aatataccta tcaatctact caccacac 338

<210> 32984  
 <211> 77  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-032-Q1-K1-F11  
  
 <400> 32984  
  
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 ggagttaaaa ctaaaaa 77

<210> 32985  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-032-Q1-K1-F12  
  
 <400> 32985  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 120  
 aaaaaaata aataataaaa aaa 143



<210> 32986  
<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-032-Q1-K1-F3

<400> 32986

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gcgagtgcga gctcatccac ggccgctggg ccatgctcgc caccctcggc gccctctccg 120  
tcgagtggct caccggcgct acctggcagg acgccggcaa ggtggagctg gtggacgggt 180  
cctnctacct gggccagccg ctgccgttct ccatctcgac gctcatctgg atcgaggtgc 240  
tcgtgatcgg ctacatcgag ttccagcgca acgccgagct 280

<210> 32987  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-F5

<400> 32987

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gtgcgtagta tctagctcac aacaggggaa gaccagaaga aacaaggccg ccgccgccgc 120  
tgcaagaaca acatacacct ttgcccctgg cccattggc atccttgacc ac 172

<210> 32988  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-F7

<400> 32988

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cagctgttcc cagtggagca tcaactggtg tatatgaagc tctggagttg agggatggtg 180  
gctctgacta tttggggaag ggtgtctcca atgctgtgaa caatgtgaat tctgttattg 240

gacctgctct gattggcaag ggctcttcag cacagactga taattgatac cttatggggtt 300  
aacaactttg atggggactca aatatattgg ggattgtgca agcaaaaaact t 351

<210> 32989  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-F9

<400> 32989

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tgctcttcgt cgctcttctt gtcgctgtct gcttcggcgc caccgcccgc aggtccagcc 120  
acgcccgccca caccgacgcc gactacgcga ttctgtctccc cagcagcttt ggcgctgggtg 180  
gtcgaccgtg gaattgctgc gactccgcta tcaaggactc ctctctgccg gcgtggcgct 240  
gcaacgacgt ggtggacaag tgctccgtcg actgccatga ctgctaggcg tttactgccg 300  
gcgacggctt cgtctgcggt gactttattc taagcctgac cgagcccccg gtcggcacac 360

<210> 32990  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G1

<400> 32990

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ccaaatgcta aagcatttaa gagagactag gacaaggatg gccatgcagt gataattgcc 180  
cttaagccca tcagcaagga cgaagagatt accatcgccct acat 224

<210> 32991  
<211> 77  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G10

<400> 32991

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ggataaaaaag gaaagaa 77

<210> 32992  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G11

<400> 32992

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agtggagggg gaggcaggcg cccaggctgt caatggggac ggggagcgcg acggcggcgc 120  
aggccctggc gctcgccgcc ttgctgctcg cctgctctgg cgtcgcagtc gtcacggcgc 180  
aggacattga gcggatccaa ggaagtgccg gcgacgtgct ggatgacgac cccgttgggc 240  
ggctcaaggt gtacgtgtac gagctgcctg ttaagttcgt catgaacgtg gtggcgaagg 300  
actcgcggtg cctgatccac atgttcgcca cggagatctt catgcacc 348

<210> 32993  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G12

<400> 32993

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gccgtcgcca caccacaacc cgtcgaagcg aagcaagcaa tggccggagt cggatcgaag 120  
gccctcgccg ttgcgcgcgt tctggcggac gtctccctct cgggtggccgt cgcggccgag 180  
gcgcccggcg ccagccccgt ctacgatgtc gtcgcgttgt ctgttgtctt ctctgggtc 240  
ctcggcgcct tcgtcgccgt cttcctcttc gtcgacgttc gccactgatg ccttgtggcc 300  
tcgtgcctgc aggctaccta gcagta 326

<210> 32994  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G3

<400> 32994

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gactgccttg tgtaaaacttc gctggagacc tgtggtttgg aactatgctc acggctacga 120  
tgggatcaga ttattttgag tattgatgac acgagtatat gtcgattggt tt 172

<210> 32995

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-E10

<400> 32995

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gtcggcggcc tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac 180  
ggcgaggttc tcgagtccea gatcctcctc tatcgtgtga ctcatagggt ccgcggcttc 240  
ggcttcgtca ctttctccac ggaggaggct atgcgtaact ccatcgangg catgaacggc 300  
aaggagctgg acggccgtaa catcaccgtc aacgaggg 338

<210> 32996

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G6

<400> 32996

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ggaaccgtgg aactaccaca ccggccaggt cccaactac tacggctgac acacctatag 120  
gctctacata ttcccctaga catttaccaa caacctctat ctgaaagata tccactcata 180  
cttggcc 187

<210> 32997

<211> 211

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-032-Q1-K1-G9  
  
 <400> 32997  
  
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 tatttggtgt ttatgtgagg ctgcatgcta atgattaact ctggctcttta tgtccatgtg 120  
 agaaggctaa taaattatct ctttattttg gttcgtgaaa aaggatgttt gaccctcgag 180  
 acgagtaact acatatgggtc tgatacttac t 211

<210> 32998  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aagcaagaga ataagcaaac gtcggtagag aaggcaagtt ccaatctgag ggatgatatg 180  
 gtgaagctgg attgaagagg atttactaga ttgagaaga ccctttggat gttcactgtc 240  
 ggaatgttcc cctctttcag tgtcttgcca aagtaccta cgattgggtc tgtccgtgtg 300  
 gggcttcgtt gtgacgctag tttcataaga tcntggatgc actcatatac cctggctggt 360  
 cttgatgcat gaaggcgtat cgcttggt 388

<210> 32999  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-032-Q1-K1-H11  
  
 <400> 32999  
  
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ctagcctcta gccctagcta gtagctagcc actcggtcgt gtagtcatca gccttctgat 180  
 cgtcaccat gccactgcc gaggtccaga cccctgccgt cgtggcgacc gaggaagcgc 240  
 cgggtggtgga taccocggct cggcccgctg tctgtccctg ggagggtgcc ccttcgccc 300  
 aggccaaagt ggaggagcca gcttgcccgg cggagaccga gccagc 346

<210> 33000  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H4

<400> 33000

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 gcttgatcgc gctcggcttg tctactcaac aagctacaaa aggaggctcg gcttggtatc 180  
 agctcacctt gtctactgaa caagctataa aaggaggctc ggctcgttat tagctcacga 240  
 ggaggctcgc ctcgttatta gctcacgagc caccttgtct actgaacaag ctataaaagg 300  
 aggctcggct cgttattagc tcacgagcca aacaaactcg cgagctgcaa ttgataaat 360  
 aatattatat tatataatga attaatagtt tatcgatgt 399

<210> 33001  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H7

<400> 33001

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 atgatcaaat taatctgctt attctacatc gagcatatca cttatcacgg attatctaag 180  
 atgtaccgaa cgatacgctt tgccaacaat acatcagcct gaatat 226

<210> 33002  
 <211> 264  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H8

<400> 33002

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tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggct tttcatagg 120

cattcatgaa aattttaccg agagaaaaga ttggaaggga ggtttaattc tggcccttag 180

gtgtggaaac tttggtgatg gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240

atagcacggt atttgtgaat attt 264

<210> 33003

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A11

<400> 33003

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ctgatgaggt aaaatggttg cagatcagac gccagactaa agctcctcaa gctgctggtg 120

caattcacac tgattttgaa aggggtatca tatgcgctga ggtaatgaag tttgaagatc 180

tgaaagaact gggcagtga tctgctgtaa aggctgcttt aaaatacatg caggagggga 240

aaacctatgt ggtccaggac tgggacatca tcttttttca aattcaacgt gtctggtggc 300

gggaagaagt gaagaatgta tgaagatggt agcatcacag tgttttacgt cttaccctca 360

atttctcatt caac 374

<210> 33004

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A12

<400> 33004

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tcggcgagga gggcagctat ctagcttagt acgtgtactg gtccaacggc cgtgagacct 120

agaaccccat cgtctacaac aagcatttct ctttgaagaa cttattgaag ctgtgctggca 180  
ggc 183

<210> 33005  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A2

<400> 33005

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ttttaaaaaa ttccattata aa 142

<210> 33006  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A4

<400> 33006

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gctgagcctg tgctccagg cgcctctggt catgggcgtc ttccgctt tggctaaaga 120  
aaatgccctg gttgagagca aggccatcga catcaacccg gggcagctca agtgctgcac 180  
caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa aggactgcga 240  
ccccgtctgc aagaagtgcg tcgttgccct gcaagccttc taattcggcc accaccaggt 300  
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<210> 33007  
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<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A7

<400> 33007



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aatttcgtct gattgggtccc tagtagttag ttaggtgtgg aagcaacatt tgctatagcc 180  
gtagtgttag gagtaccatg tgttcgttgt ggtcagggtcc atgggtgcatt ggtgctgagc 240  
cttaagcgga atgaacccta tgctcgctgt gaggcccatg gcatcgtgtt gtcgggtggg 300  
gtttagctt gttgatgccc tattttatat tattatacgc gattgaagc 349

<210> 33008  
<211> 472  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtag 180  
ggcaggaaga agcacgcca gagcgaggcg gcggcgggcg cgggcgccac ggacaagcag 240  
cggttcaaga cgctgccggc gtcggaggcg ctgccgggg gccaggccat cgggcggtac 300  
atcttcgtct gcaacaacga caccatggac gagaacctca ggaggagct gttcgggctg 360  
ccgtccaggt acagggactc tgtgcngtgc tatccgccgg gactgcccct cttcctctac 420  
aactactcca cgcaccagct ccacggcatc ttcgaggccg cgagcttcgg cg 472

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<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-B8

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aggaaggaat ctgctgagag cacaatggtg gcctataagg ctgctcagga cattgctctg 240  
gctgagctgg cacctaccca tccgataagg ctgggacttg ctcttaattt ttcagtgttc 300  
tattatgaga ttctg 315

<210> 33010  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C10

<400> 33010

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cctgcaatca tggttgccac ttctactcta gatattgcat tggcaaacct tctctaccac 180  
ttcgactgtg ctcttcggga tggaatgagc ccatatatgg ttgataagtc tgatcaatac 240  
gggatgggtg tcaccaaaaa gttagaccat gatattatta ccatcagata tgtatactgt 300  
actatggcat acgtattggt tgtggttaaa 330

<210> 33011  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C2

<400> 33011

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agccctagct agtagctagc cactcggtcg ttagtcatc agccttctga tcgtcaccca 180  
tgccactgc cgaggccag accccgaccg tcgtggcgac cgaggaagcg ccggtggtgg 240  
agaccccggc tccgtccgcc gtcgtgccc aggaggctgc ccccg 285

<210> 33012  
<211> 343  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-032-Q1-K1-C7

<400> 33012

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gccgcgggtg tgetgctggc agcggcggcg acgacctctg aggcgcgcat cacctgcggg 180  
caggtgagct ccgccatcgc gccctgcctc tcctacgccg gcggcacggg gtccggcccc 240  
tgcggtact gctgtagcgg cgttaggaac ctcaagagcg ccgtcagcac cgtcgacgac 300  
aggcgcgccc actgcaactg cctcaagaac gccgncaggg gcg 343

<210> 33013  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D11

<400> 33013

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cgacgccggc gaggaagcgg ctgatgcggg acttcaggcg cctgcagcat gacccgcccg 180  
ccgggatcag cggcgcgccg cacgacatca acatcatgct ctggaacgcc gtcattttcg 240  
ggccggatga tacgcggtgg gacgggtggc cgttcaaagt taccttgcta gttacagaag 300  
attacccaaa caagccacca atctgtcgat ttgtctctag gatgtttc 348

<210> 33014  
<211> 489  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-032-Q1-K1-D2

<400> 33014

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tgaggatatt gatggcagcc cttctttttt agaaaaagcc ctgcgctttc ttgagaaaca 180  
 tggaataaaag gtggaaggaa ttttgaggca gtctgcagat gtggaagaag ttgacaggag 240  
 gttgcaagaa tatgaacaag gaaagactga gttttcagca gatgaagacg ctcattgttgt 300  
 cgggtgactgt gtaaagcatg ttctccgaga gctgccatca tcccccgctgc ctgcttcttg 360  
 ctgtacagca ttattggaag cgtttcgcct ggagactaan gatgctagga taaatgctat 420  
 gcgttcagct atatctgaga catttntctga gcccaaactg aggttgctgc agagaatttt 480  
 aaaaatgat 489

<210> 33015  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D3

<400> 33015

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 aagaccaccg tcgccagggt cgggcgccgc acggcgacgt gcagggccag cagcggcggt 180  
 ggcggtggcc ggggcggcga aaatgatggc ctcttttggc tgccccggcg ggacgtgatg 240  
 ctcaacggcc tgtccagtgt cgccgccggg ctgcctggt acccgggcgt cgcgtccggc 300  
 gcggatgcgg tgtgca 316

<210> 33016  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H6

<400> 33016

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 aggccttcat gaaaatttta cccggagaaa agattggaag ggaggtttaa ttctggccct 180  
 taggtgtgga agctttggtg atggtaggtc gatatcttac cagggtggtaa ttacatgcca 240

ttattgcacg taatttgtga atattt

266

<210> 33017  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D8

<400> 33017

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cagggcccca gggttcctac tctcgtggca tcggcagcac tgaggggaag atgtcgtcgg 120  
tgttcagcgg cgatgagacc gtcccttct tccgtttcct tggcgccgtc gtcgctctcg 180  
ttttctcatg catgggggag gcgtacggga ctgccaagag tggcgtctgc gtggcgtcca 240  
tggtgtcat gctccagag ctctcatga agtccatcgt gcccggtggtc atggctggcg 300  
tgctgggtat ctactgctc atcatcgccg tcatcatgag cactgtgatc aacctcaagg 360  
ccaagccata ctacctcttt gacggctatg cctacctgtc ga 402

<210> 33018  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D9

<400> 33018

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tccattgcta ctacagagagg aagcagtgtt ggttacgccg gtagtactgc tgatagggtg 180  
ttgaaccagc tgcttactga gatggatggc atgaatgcta atatgacggt ttttattatc 240  
ggtgcaacta acagaccgga catcattgat ccagccttgc ttaggcctgt tcgtattgat 300  
cagcttatct atattcctct ttccgatgag caatccaagc ttcagatct 349

<210> 33019  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F12

<400> 33019

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caagggcttc aaggacctgc ctcccgggat gccttcctg ctcttcgtga ctgcattaac 120  
ttgcttttgt gggttccggt cattctttta cacaacgact ggattggccc gga 173

<210> 33020

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F2

<400> 33020

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gggaagatga gatgtagttt attggtgaca acaaaaaggt caagggtata aaatccatct 120  
gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaatt tactcaaagc 180  
aatggtagt gataggtgag ccagttctag gaaaaaatgt actagcgggtg caacggttct 240  
aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaatctac 300  
aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360  
atcacttttc ctaagatgga cgctctagca caag 394

<210> 33021

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F3

<400> 33021

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atctccaaaa tgaccacca ctactcgtat tttatcaatc tgtctcatat aaaatttact 180  
caaagcaatg cttagcgatc ggagctcaac tcctagctaa atatcaacta gagcaccaac 240  
gtatctatcc tcatctatcc ttctatcata ttatacttca cactataaac cttatttaa 299

<210> 33022  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-F5  
  
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 tacctgggca gaatgtgtcc tcaaaagttg ggggcctgtc tgtgtactgt gtgcgatgga 180  
 cgccctaagt aaaaaaaaaag ggcaggtgat ggtcgtgctc caggtgatgg tcgccctaatt 240  
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 atcttggaat 310

<210> 33023  
 <211> 65  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-F6  
  
 <400> 33023  
  
 aaaaaaaaaa aaaaaaaaaa taaaaaaaaa ttttttaaac aaaatccaaa atatatctta 60  
 ggagg 65

<210> 33024  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-F7  
  
 <400> 33024  
  
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 cgaccacgcg tgcgaaaaaa aagcacaccg gacaccgaac gatgatgcag tgctcttacg 180  
 ggcgatggga ccctacctat agctgaaccg atataaaagg gcggccggtt tataggcccc 240

aaagataagt cttcgcgatg ccaccgcata cgttttctga cgtgctaccc aaatgcaaat 300  
gacgggacgt ccggtctcaa caaatTTaat ggcgaaaccc tgtcgggtca caaccg 356

<210> 33025  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F8

<400> 33025

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ggggactccg ctgctcgcca acggtgcagc cgacgtccgc cggaggaggg accaggcgaa 120  
ggcaattctg tccacgcagg ccgtcaggat cgccaccaag gccgagcagc atgagcgctt 180  
catctttaag gtcacacact tgctgggtgt tcttggattt gggggatttt gctatctctt 240  
gggtgccaga ccacaggatg tgccatatgt gtactgcctg ttctatgtca tatttgttcc 300  
gctccgctgg atttactacc gctacaagaa atggcattac taccttctgg acttctgcta 360  
ctatgccaac acctttctcc ttgtaatgat tctcttctac ccagaggatg aaaaactttt 420  
tatggtttgc ctttcgtttg caaa 444

<210> 33026  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F9

<400> 33026

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gggcaggcgg tccgacgaat gcacagtccc ggagaatatt ggtgaagcaa taacttgata 180  
ttgggttcta gaccaaagaa gcaatggaaa aggaatcatc tgccacatac gagccaaaaa 240  
ggaacagtga aataagggtt tttgagagtt cagatgagat ttcaacggat cttgctgagt 300  
atatctcaca agtttcagaa atttctgtca aagaaagggg ataccttgcc atcggcttat 360  
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t

421

<210> 33027  
<211> 141  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G12

<400> 33027

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gaacattcct gaaacaccct taactctaga tggcatactt tctgctatag actgccagtt 120  
cctcaatcat aaagttacaa c 141

<210> 33028  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G2

<400> 33028

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cgaccacgac tacgcaagac tacaacagat gaataggtct gttataaaat ctacttaaag 180  
caattgtag tgataggtgc tccaacctct atgaaaaaat gcactatcgg tacacaccat 240  
tctaggcgca actatgctac tatcac 266

<210> 33029  
<211> 72  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G3

<400> 33029

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aaaggaagaa tt 72

<210> 33030  
 <211> 210  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-G4  
  
 <400> 33030  
  
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 gcggggaggg tctttacagg ctagccagcc agctggtagc tcttgccgac aaggcgatgg 120  
 ttggtgccaa ctttaacttt ggaccgagct tcggcttggt ctttcggaa gaagctccct 180  
 tgtggtcaat aaagacacca ttaccttaa 210

<210> 33031  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-G6  
  
 <400> 33031  
  
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 caccgcgcag tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180  
 cgaatacgat gaacggtgcg gtgacaggac tcgccgagaa gaccatctgg ggcaccgtcg 240  
 tcgccacctg gtacaacagg ccccttgagg agcgccacgt agagctc 287

<210> 33032  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-G7  
  
 <400> 33032  
  
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 gactctggcg atgaccgttc tgatggcgac caacggacag tgttcaagtg cagacgcgcg 180  
 accggctata gaccggtgaa ggcggtacag gacgatactc ccgctccttc cgtcggtgct 240

aatagacagg atgatgcc

258

<210> 33033

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G9

<400> 33033

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aggaccgttc ctgctgctgt gctgctggt gtctttctct ccggtggaca gagcgaggag 120

gaggccaccc tgaatctcaa tgccatgaac aagctcagca ccaagaagcc atgggccctg 180

tcctttctct tgggcccgtgc cctccaggcg agcaccctca aagcctgggc tggcaagggtg 240

gagaacgtgg agaaggctag agcggctctc ctgccagggt gcaaggccaa ctccgaggct 300

accctcggca cctacaaggg tgatgctgtc gccgacaccg aaagccttca cgtcaaagac 360

tacaagtact gagttgcttc tctttgcgat cccgttggtt tgga 404

<210> 33034

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F11

<400> 33034

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tttgaagttt gtcctagaaa aaaggtttca agcattctcc ttgttgaga ctgatatctc 120

ctgttcctgg atcctaata gaactgtttag aagctctgat aattgtgcct atggaaacag 180

gtcttgatg tggttaacaa gatgccagc ttgagaaaga tttccttctc agcgcattct 240

ctgggtgggt tggttgctag atatgctatt gcaatactcc actcagtctc agtggaaaca 300

aataatgcat gacaaagtag tgcacttact gttcctacac aaga 344

<210> 33035

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H1

<400> 33035

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ataaaaaata aaaaaaaaaa atattaaagg gaaaatcaat aaatcaaata tgaacacaaa 120  
aaaaaaaaaa acataaatta aaaaatatac tattttataa ttccattcaa aataacacca 180  
tataccttat ctgatatac 199

<210> 33036

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H10

<400> 33036

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gacgtctagc ggctctggtt tgaatctcac agccactggt gtaaagatca acgaagactt 180  
cattggtgat atacggacac aacataaaaag cagtagaact actattgatg tcaccgttga 240  
tagtgattct aaagtgtcaa ccacagtcac tgttgatgaa gcactaactg gtttgaagac 300  
ttcattcgcc ttcaaagttc cccatcacia gtctgggaag cttgatctgc aatatgcgca 360  
caatcgtttt tcattgaact cgaccattgg tttgacatca gcacctttgg ttgaactggc 420

<210> 33037

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H12

<400> 33037

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aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaagaacaa aaaaaacaaa 120  
aaaaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa tatcacagac 180  
aaaacaataa aataacaacc aaaacataat aaaataataa acaaacacaa catataataa 240

atacaactac taa

253

<210> 33038

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H2

<400> 33038

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aattctttca tttc 74

<210> 33039

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H4

<400> 33039

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tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggtc tattcatagg 120

cattcatgaa aattttaccg agagaaaaga ttggaaggga ggttttaattc tggcccttag 180

gtgtggaaac tttggtgatg gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240

atagcacggt atttgtgaat attt 264

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C1

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gccgctgatg ccagtacgtc ctagtgacac aagtggaaagt gggcaaacga tctgtgatgg 180

ctttccggtg tatagtttcc atggttcatt tgtgtgcttg tcccatgttt gcctggggac 240

gatgacgttt tacaattttg gccccatcg cgcgcactcg tctgtttctc tcatggaagg 300  
 ccgtgtgaac ctgtgcctgt gtttgacaaa tgaacggaac tttatatgga ccaatgctta 360  
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<210> 33041

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C11

<400> 33041

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 gcatcgagct gtagctcgtc cgcggcctgt gcgcactggc agtgcccgcgt gtacacggcg 180  
 gcaatga 187

<210> 33042

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C2

<400> 33042

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 cgcaccctct ttgcttgccg gtcgtcgcat gctacgcact acaatggcgg cctgaccgcg 180  
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<210> 33043

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C3

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gctggcgctg gtctcatcg tggccttcgt ctcgctggcg gtgtacctgg cgctgcgccc 120  
 ctggaagccg tctttctacc tgcaggacct gcagctgcgc atgcccattct cgctgggcga 180  
 cccgtcgctg acggcgctcg cgcatgtgac gctggccttc cgcaacgcca acgaccgctt 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C5

<400> 33044

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 cgattca 127

<210> 33045  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C6

<400> 33045

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C7

<400> 33046

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 ctcggtggcc tccgcggccg aggcgccgc gccagcccc gtcttcgccg tcgccggcgc 180

gtcagcgccg ttcgctcgcg cctctgctgc ctacttcgtc gccttcctct tcgtccgct 240  
cctgcactga gcctatgggt cctttccacc gtcgctgctg tctagatcta tttattggag 300  
tggcatttca gtagtacttg ttctaggg 328

<210> 33047  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C9

<400> 33047

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agagtgtccc atcagcatat gaagttcttc tccagcaacc catgctcagc tctcactcaa 180  
gacgtgtacg aagataaatg agcatagtat acacac 216

<210> 33048  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D10

<400> 33048

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gacacatcgt ccaaatttgg gcacggctgc ttccagacta ccgatgagaa gcagaggttc 180  
tttggaagc tcaaggcgta aggtgctgctg gtgcagcgaa gtcccatttc tcaaaatcat 240  
caaactgaga tacttttggt tgtaaccttg ctgtaccaag tttttagacc atggtccggt 300  
cgtctatgga ttgctccatg cttcagaact gcactgtcta tgttttgcgc tatctggggt 360  
gttaatggcc caaaaaaaaa attaaaattt ttatatgttt tctacatta atatt 415

<210> 33049  
<211> 354  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-031-Q1-K1-D11

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agctgggtcc ttcttcgtgc agaatgacat gttccgcctg aactatggct aaaagacagc 120  
cgaaaactct tgtgatgaac gaatttgta agggcttcat gttgagacga tgaataccga 180  
ctgtcgccgc tactctcacc tcctttgtat ctctctgtt ggctgattaa ctgttattac 240  
aagaaattgc tggacttggt tttccagtt gttttgaatc atgtattatg gttgcatggg 300  
caccatttct tcgtgggatg tgaattgaaa cagtccaaat caattgggtg gggc 354

<210> 33050

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D12

<400> 33050

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tgacattcaa acaatgttca tacaaaataa caagctaaac catctctttt actcacaatg 180  
aatacctcct ctacactata aactcaagta ct 212

<210> 33051

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D2

<400> 33051

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atagatgtaa ccgcctttgt taatgcctcg atgtagcccc cagcagagcat cgcatagcac 180  
ctgttatgtt gtcagcgctg ctactgataa tcggttctgt tggtaaatgc tactataata 240  
atcggttgtg gtgcaagtaa tgtgaatagt gtaagagtgt ttctgtgtca aaaaaataa 300

catcgagcgt acatcttaat cggccaactg aac

333

<210> 33052

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D3

<400> 33052

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ttacgaggag atctctagta acggcgagcg aacctagagc agcccaactt gagaatacaa 120

caggcctcgc cttctaaatt gtcctatgta aaggcctcc 159

<210> 33053

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D5

<400> 33053

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<210> 33054

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D7

<400> 33054

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gggggctatt attctgaatt aagaaggaat aaaaatttaa agaattattc tataaattat 120

tttaaaatta aaaataataa taa 143

<210> 33055

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D8

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ggggccttgt acacgtacgg cggatccatg catgactaca gaccgacgga ataagtaaac 120

tcaccctaaa actagtcaga gctcactcgc acgctgacgc tcacacttat actacacgtg 180

ctcagtaaga ccacag 196

<210> 33056

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D9

<400> 33056

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gtcctgtcat taccatggc tgaacacaac caccagctct agcagctcgg agcagctcaa 120

gcatgacgac agaacacgac gggttcggcg cctacagcca gtaccccaac tacaagaacg 180

actccttgac cgaaatctac tgctccgtct agaacaatta cgtcgagtac attaatgcat 240

tgaaccaacg catgcacaag cagcacactc tgagacgcct atgacatcga ccgcggctcc 300

tccgcactct acgacaagca ctatgcaaag aacgaccc 338

<210> 33057

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B8

<400> 33057

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ccagtatgga cattgacaaa gctcagtcta ctctaccaa gaaacaatta actggcgtct 180

atgatttggt tgctgtcttg acacacaagg gaagaagtgc agactctggc cactatgttg 240

gctgggtcaa gcaagattac tgaaaatgga tcgagtttga tgattactat ccatacatgc 300

ttaaggaaga agacattttg aaactatctg ttgaagttac tggcacaatg cttatatct 359

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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-E1  
  
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 ggcgggtccgt ggcgagcgcg gcggaactga gcccttcgct ggtgatcagc ctgagcacgg 180  
 gcgtgtcgat cttcctggg 199

<210> 33059  
 <211> 433  
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 <223> unsure at all n locations  
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 gtatcaatgc atgcttggcc gtagggaaag atatgctcta cttgtatgga ggaatgatgg 240  
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 atgagtggaa gtgtatcata tcggcctcag aatctgaatg gttagaaatn tctgaagaag 360  
 aggaggatga tgatgatgag actgatgatg atgaaaatga agagggggat gctagccaga 420  
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<210> 33060  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-E12

<400> 33060

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ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180

tgttgtcctt attgtaactg ggacactgca tgagagagat gttaacgaac ttttggagaa 240

atgccaccca ttgggcatgt ttgacagc 268

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<212> DNA

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<223> Clone ID: LIB3068-031-Q1-K1-E3

<400> 33061

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gcttttgtgg ccttcgctg ctacttaagc tctccgcccg tacacggctt catctctcat 120

ggcactcget gtcttctgat agctgctgct atatctactt cactaaccta agaagcgtct 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E6

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tctaaactgc gtttcttaca cttgcatccg aaacaatcaa ctttactctt ctttctaccc 120

actgattaac tttaataact ctcaaagtat cattattaca cttactccct cactcatata 180

ataattctac accaataaca tcatttcaca aaatcttact acatttcatt tcaacaaata 240

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<212> DNA

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gaaagtgagg ccccttctcac tgctgacctg gaccttggag agattgttcg agccaagttt   180
gattttgacg tgggtgggcca ctactcgcca cctgaggtgc tgagtttagt ggtgaagagc   240
gatccaaagc ccgcgcgtctc ttcatctca tccgctggta gggacgatga ctatgtgcag   300
acctaataac aaacatatct tcggtcttta gcttccttat actgcaatcg catgcatctg   360
tataattgtg ggtttccgga acgttgcacg ttccggttaga ataataataa actggtatgt   420
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<210> 33064

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G4

<400> 33064

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atgcatgccc aagcaagaat gaccactgac gctagtctcg ggggccgtac ggcgacgtgc   180
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<210> 33065

<211> 340

<212> DNA

<213> Zea mays

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<400> 33065

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cggctcgacc ttcacgcggg taacagggtg accgtccgcg gattcacggt atccccgggat   120

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acgcatgggt tccaaagcgt acttccgtgt cacgctcctc ttgctgctcc tcgtcgacgc 180  
cgacgcggac tggggacctg ctgcacaggc cgacgacgct gctgagctcc cggatcatag 240  
agctattacc ttgaaagagc aggtttcttc gaccaagatt cctgtccggc tcaagagtgg 300  
cagcccgtg tgctcaacct gggaaaactt cacggggccaa 340

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<223> Clone ID: LIB3068-030-Q1-K1-G7

<400> 33066

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caacgtgatc atcgaggagg tgaacaaggc cctgaacca ggaatggtgg ttctgctcgt 180  
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gctgaagcag ggggtctcgg cgccagggga gtgaacagac aaggatgccg gcgatccggc 360  
cgctctgagg cccgccccta ttacatg 388

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<211> 84  
<212> DNA  
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<223> Clone ID: LIB3068-030-Q1-K1-G8

<400> 33067

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<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G9

<400> 33068

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cttcctgctg aagatgtgca gggcaagaat gttcttataa actcttttgc gttgaatttt 180  
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<210> 33069

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H12

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ctatagcaac acccaatgat tgctaactat gattgtacct tacataccca gaagaatctt 180  
tcgtcgcacg ctaaatcaat actaatgtcc aaacaactaa tctctattac caattgtgtc 240  
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<210> 33070

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H5

<400> 33070

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tcctatggag gagaaggaat catgccacct tcaagctact tcatgacagc cagatcagat 180  
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acctatgctg gcgctaggca gactgatcta ttacctggcg agactccatc taaggataag 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-H6  
  
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 cgaatatctc aaatcacggt ataagtagtg gtactttact agcgcccgga tgctactact 240  
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<210> 33072  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-H8  
  
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 ccatccaacc tcttaagccc tgacttgat ccaaaaatat atcctttgcc ccaatttcaa 180  
 cccacgtaat aagtttaata accacaaaat tagttatatt tcacttacac ccgtatgctt 240  
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<210> 33073  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-H9  
  
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atatcttcta tcttgatccc tacattacaa tccaatgcac gatgtctaca acattgtata 180  
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<210> 33074  
 <211> 220  
 <212> DNA  
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<223> Clone ID: LIB3068-031-Q1-K1-A1

<400> 33074

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 acatgctctc cttgcgttca cccttggagt gaagcagatg atttgctgct gcaacaagat 180  
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<210> 33075  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A11

<400> 33075

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 agcacctaac atgaccatga ttgtaatcat aatactagta ccagtcgcaa tctcatttct 180  
 acagtgttta aacctatcaa tcaacctaac cgactaaggg ctactatgga tgaaggactg 240  
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<210> 33076  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A2

<400> 33076

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 gagcatgctg agccaccgcg gcgacagcgg gtgccagggc gcctttctaca cctacgacgc 180  
 cttcatcgag gccgccagca agttccccgg cttcggcacc accggcgacg agcagacgcg 240  
 caagcgggag ctcgccgtct tcttcggcca gacgtttcac gaaaccaccg gtggatgggc 300  
 gactgctccg gatggaccgt ttgctgggg atactgccgg gtgaaggaac agaaacagac 360  
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<210> 33077

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A4

<400> 33077

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 gcgctgcgtc gcctatgctg acggcgccgg cactcatcat ggcggtgtgga gcataatcac 120  
 ccggtccatg ttccagagca tgctgatcca ccgtggctac agatggtgcc agggcgctt 180  
 atacacctac gacgccttta tcgaggccgt cagcaagttc cccggctttg gcaccaccgg 240  
 cgactagcaa acacgcaggc gggagctcga cgactttatt gtccaaaagt tccacgaaac 300  
 caccagtgga tgggctactg ctctgatgg accgtttgcc tggggatact tgccggtgaa 360  
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<210> 33078

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A5

<400> 33078

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 cagtgactcc accactggtg gttttgaggc tggatatctc aaggatggcc agaccctga 120  
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 ggatgctacc actccgaaat ac 202

<210> 33079  
 <211> 109  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-A7  
  
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<210> 33080  
 <211> 96  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-G2  
  
 <400> 33080  
  
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 gggctaaaat caaattgggc ggtggctctt aaatgc 96

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 <211> 204  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-A8  
  
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 agggggggact ctaccaatag aagggtataa acactctctc atgcaaggat aatcaatact 120  
 ctagaacatg ctctaattac attaaccctt cgaattatta catatcattt actggttaca 180  
 cacgatggat tcaccatta ataa 204

<210> 33082  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-031-Q1-K1-A9

<400> 33082

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cgtgaagaag cccaagatta ccgaagtgga cagggccatc ctcaccctca agacgcagcg 180  
ccgcaagctc gccagttcc agcagcagct tgagaaggta attgaagcag aaaaggaagc 240  
tgcacggcag ttggttcaac agaagaagag agacagagct ttgattgcac tgaagaagaa 300  
gaaagctcag gaagagctgt tgaacatgt tgacacatgg caaatgaatg ttgaacaaca 360  
gctctcagat attgaactag caagtaaaca aaaggctgta tttgaaagcc tgaaagctgg 420  
aaacgctgcc cttaagtc 438

<210> 33083

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B1

<400> 33083

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atgtcatccc aactccgcct cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120  
gcgccgccgc agatcaaaga agatggcagc tgtcgacaca ttctctttca cctcggagtc 180  
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240  
ttgccttgct gaggaccctg acagcaaggt tgcttgtgag acctgcacca agaccaacat 300  
ggtcattggtc cttggtgaga tcaccaccaa ggccaatgtt gactacgaga agattgtcag 360  
ggag 364

<210> 33084

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B3

<400> 33084

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actgagcggg caacaatcaa cgcagcactt gaagcccgaa cgcgtaaaag ctacagcttc 120  
gcttgaccca atccctatgc tttaacgcga agcttcattt gacggaccac tacagacact 180  
gataggacaa aaacatttca gccaatctgt gtcgacaaaag acgagtttca acagcgatga 240  
tcctaactaa acaaggtgta tta 263

<210> 33085  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B5

<400> 33085

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aggggtatta acaattctgc cgcactatac aaacttccca cctcacagaa tctcccgacc 120  
agataatgca atcaagcccg atcaatccag ccaagacgat attactgtcc aaaattacga 180  
acctcgctat acatataatc acctacatac ttgaattaac tcactagatc ccgaaagtgc 240  
actcgtactc tacagctaatt 260

<210> 33086  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B6

<400> 33086

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acatgctctc cttgcgttca cccttgaggt gaatcagatg atttgctgct gcaacaagat 180  
ggatgcaacc actccgaaat actccaaggc acgttatgat gagactgtga aggaagtctc 240  
atcctacctt atgaaatgcg agtacaacc ctgataagat tgccttcggt ccataacag 300  
gttttgaggg cgacatcatg attgacagcg tcaccaacct 340

<210> 33087  
<211> 450  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D10

<400> 33087

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agcgggtgaag tacctcaaga tcatagtgcc accgaggaaa acccaaaaac aattgacagc 180  
attgttgaaa ggagaccatc tctaagcagt cagattagca ttaccctaag atcaagtggc 240  
gaagtacttc aagatcatag tgccaccgag gaaaacccaa aaacaagtga aagtattgtt 300  
gaaaggagac catctctaag cagtcagatt agcattaccc taagatcgag tggatgaagta 360  
cttcaagatc atagtgccac cgaggaaaac tcaaaatcaa gtgaaagtat tgttgaaagg 420  
agaccatctc taagcagtca gattagcatg 450

<210> 33088

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D3

<400> 33088

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acgcccgcc caccgacgcc gacgacgca ttcgtctccc cagcagcttt ggcgctgggtg 180  
gtcgaccgtg gaattgctgc gactccgcta tcaaggacgc ctccctgccg gcgtggcgct 240  
gcaacgacgt ggtggacaag tgctccgacg actgccatga ctgcgaggcg tcgacggccg 300  
acgactgctt tgactgcggt gactttatct taagcctgac cgagcccccg tctgcacacc 360  
taggccgtgg gactgct 377

<210> 33089

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D4

<400> 33089

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gacacgttaa caaaattgct ccaagggtcc aggagggaat caaggccttc tcaggaagcc 120  
caattgttgg ggagatacgc ggtctgggac tgatacttgg aactgaattt gtcgacaaca 180  
aatctccaaa tgatccattt ccagctgaat ggggtgttgg ttcgatattt ggcgcgaggt 240  
gcgagaagcg tgggatgctc atcagggtgg ctggggacag catcatgctg tcacccccgc 300  
tgatcatgac ttcca 315

<210> 33090

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D6

<400> 33090

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gatccgccgc gtccccggcg gcggcaccca ccgcgccggc caggagcgt tcggcaacat 120  
gtgccgcggc gggcgcatgt tcgcgccac caagatctgg cgcaagtggc accgccgcgt 180  
caacatcaac ctccgccgcg tcgccgtcgc ctccgcgctc gccgccaccg ccgtccccgc 240  
cctggtccag gcgcgtggcc accgcacga gactgtcccc gagatgcccc ttgtcatttc 300  
cgacttcgcg gagtccattg agaagacctt ccaggcgctc aagatcctta agcagatcgg 360  
cgccccac 367

<210> 33091

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D7

<400> 33091

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tcaaggatga cgaggagttt gcacctggat caaatcgtaa agtgactaca atgggcgttt 180



atgtgcgtga tctcctcctt ggtcagtact atttcgacag tctccttcca cgagtgcctc 240  
 tcccaatcct ccgacaggtc actagccacc ttgagaagct aaagctttca acaagcagtc 300  
 aagaatgact ggggattcca acaagcttga atcaaatgat a 341

<210> 33092  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E1

<400> 33092

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 tgcaaattcc gaatatcagc tgtaatgcaa ctacacaggt caactacacc gattctgact 120  
 ttaccgtgga taatatactg gatataactg actctgt 157

<210> 33093  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E11

<400> 33093

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 gcatcgctgc cgcagaggac tgccgaaggc gtctgtcggc gcagctaggc atctcggccg 180  
 gcctgttcca ggtcgggaag gctgccatga gggaggagat gacggctgaa gccatggtcc 240  
 ccttccagat attcaggctg tgagagagaa tctattcaac accgtctttg tgtcaccggt 300  
 ttgttgcttg atgtaattgt aaaatggtgt aagaccttgt ttgctggaat attcgatggt 360  
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<210> 33094  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E2

<400> 33094

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ggggcgatga cgctgggtag ctccggcgcc ggatcgagcg tcgtcggtcc ccgaaacttc 180

aggctattag aggagctcga gcgtggagag aagggcattg gtgatggaac agtgagctat 240

ggaatggatg atgccgatga catctacatg cggtcatgga ctggtaccat cattggccct 300

cacaatactg tacatgaggg tcgcatctac cagctgaagt tgttttgtga caaggactat 360

ccggagaagc caccatctgt cagattccac tcaagaatca acatgacttg cgttaatcac 420

gagacatgaa tggttgat 438

<210> 33095

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E6

<400> 33095

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gactgccgga ggagtgatga ccgtccttat cccgaggaac accaccatcc ccaccaagaa 120

ggagcaggtg ttctccacct actcggacaa ccagcctggt gtgttgatcc aggtgtacga 180

gggtgagagg acccggaccc gcgacaacaa cctgcttggg aagttcgagc tctccggcat 240

cccaccggct cctcgtggtg tccccagat cacggtctgc tttgacatcg acgcccacgg 300

cattctgaac gtgtctgccg aggacaagac gacggggc 338

<210> 33096

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E8

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tgctaattga 70

<210> 33097  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-E9  
  
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 gcggtttcgt ggggtgagcgg atcgagatgg cggcgtcaga tggtgagtac cgctgcttcg 120  
 tcggcggcct cgctggggcc acggacgacc actcctcca caacgccttc agcacctact 180  
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc ctcggttcg 240  
 gcttcgtcac cttctccact gatgaggcta tgcggaacgc catctagggc atgaactgca 300  
 tggagctgga cggtcgtaac atcacggtca actaagccca tt 342

<210> 33098  
 <211> 190  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-F1  
  
 <400> 33098  
  
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 gattacgtta gaataagaag atgtatatgt aaataaaaaa aaaaaaaaaat aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacatt aaaaaataca 180  
 caatttaata 190

<210> 33099  
 <211> 237  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-030-Q1-K1-F12  
  
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 gagagacggt catgtccttt tggctgtttg gtttattcat atcacaactt ttgagtgtat 120

acaagattat ttatgtggca aacctcaaag attgtaaggc gatacatgcc gaaaaaaaaa 180  
aaccttgccg agttaggata ttcacggttt taatgttcgt ttgaaccttg tttttca 237

<210> 33100  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F2

<400> 33100

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ggtgtgaaga aagtgaaaaa gattgtcatc aagaagattg ttaggaagat tggtgccaaa 180  
gataaacaaa ctagtagttc aaccgtccca gaaaaggaca tcattgatgc taatgtaaata 240  
gcctctgaaa aagaagaagc taatgcaaata gtttctgaga aagaagaaag tgagatcaca 300  
acatcatctt ttgagaagga tgctatttct gcacacaatt tggtcagtag tagtgataca 360  
gctggagttg ttaacagtgt ggaggtccaa aaggaacaaa atagtgattt ggtaaatactg 420  
aagaaaacaa tgc 433

<210> 33101  
<211> 244  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F3

<400> 33101

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tagtgggtgt cgttgcccca tgtgtgccgc tgaagattgt gtctatgatt ggcttcatat 180  
actatgacta tctactctca tgtatagcag aatgggtcct ggtatatcaa gcatgttaca 240  
gtct 244

<210> 33102  
<211> 203  
<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-030-Q1-K1-F4  
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 cttaccctaa ataaatacct ttttactaac ccagtcata aacatctatc caaacctaac 180  
 atcatttgct atctttatct cat 203

<210> 33103  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D1  
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 gacatattag agctaatact tgcataacac cttgacatgc ttgaagagcg cattaacttg 180  
 ataaatagct gacacggact atgaccgctc aattgatgat acataatcac ttaaccgatc 240  
 gcaaggctca cggacacgag acgcatcata catatctcta gcctatcaac tttagatagt 300  
 aacattg 307

<210> 33104  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-030-Q1-K1-F6  
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 nntcttann tcttaagtgn gatggtcgat cttaaactctt gaatnnaata tttctatctt 180  
 aatttcaaat tctgatcctt tagatccac tctatatcta taccatgta agttatgata 240

tatgcctggt cgacataaat aaaatattag tgcccattta attctatata accatnnntc 300  
 ttatccctaa attaataccc ttgggactta atcccgctccc ataatacaac ataccctaac 360  
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<210> 33105

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G1

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 gttctagaga aatgatgtca ttctcttcaa tgctgctaaa gggggactca acactgtctt 120  
 aaaatgacgg tagacgtgtc taggtcagta ataagagtgt gtaaaatctg aatgagatac 180  
 gaatacctct gcaatgatga aaatctaatt atgcgcgtat ctcatatagat aacaaggcgg 240  
 t 241

<210> 33106

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A12

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 catgatagct cacctgttca acgcgccgat caaggaggac gagacagcta ttgggggtcgg 180  
 aacagtggga tcctcggaag cgatcatgct tgcaggtctg gcgttcaaga ggaaatggca 240  
 taacatgagg aaggagcagg ggaaaccgtg tgacagaccc aacatcgtca ccggtgccaa 300  
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<210> 33107

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A2

<400> 33107

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tttgctgggt ctgaacgaac cgaaccctgc tgcaactgcg atagaagagc agaatgcttt 180  
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agtcactgtc tgggaacttg cccttgtgac agcaccaagt tcaaatagaga cctccgttgc 300  
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<210> 33108

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A3

<400> 33108

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<210> 33109

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A4

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tctgaactaa ccaggctcta ttgcaactgc aatagaatac cagaatgctt tggcactagc 180  
tattgaatcg attgattatg ctccgaaagc tgctaccact tttggaaatg gactcactgc 240  
ctgccaactg gcccttgtga cagcaccaac ctacatgag accgccgttg cccaagcac 300  
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tacagcgagc cagcc 375

<210> 33110  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A5

<400> 33110

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gcgcaaccac ggggcgtgcg cggcgctgct gaaccgctcg gcggcggagc ccatgggtgtg  180
gccttccccg ctcaagttca tcagcgagct ggaccggag gcgaaggctc tcctggaagc  240
ggcactgatg gacgccaata gggagagggg ggagaagatc ctcaagggca tcaccaagta  300
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-030-Q1-K1-A6

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agcgcgcgcg ggcgggtgga gttgaacgcc gcgccgccgc cgtccaggca cggcgacctg  180
ccggcgccgc ccagcgagcc gcagaactcg cccgcggact gccacagggt aacggatgta  240
gagacgacgt gagtatcact ggtttaatca tagacgttac cttgtaatgg cgtgatcatg  300
ttcattttgg agtgtgggta gtcccctagt tttttataac agcgaatctc tcgtctacgc  360
ctccaaatcg tcgaagccgc acctaatgac ctncataatg gcaaatttct ctctatcagt  420
ggagcaacca                                     430
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<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A7

<400> 33112

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ctcgtccgat gttggggctc tgaagggttg ggctgctggg ttggtgggtc ggccggacgac 180

atgagggtctt cggaggaaac tttgcttggg tgggtaccagg cgagcggcga cgacttttcg 240

atgtcgtctc tccttcttga aggcgcggcc caaaagacct ctagtttgtg tgttcgtcgg 300

cgttgtggag gctctttgtc actccgcttg gctcgggtgt gtctgggtca ttgtcgtttt 360

aagcgtctgc ttggctccca agttcggcgt tgtggatctt t 401

<210> 33113

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A9

<400> 33113

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acccaactg ggggcatatt aatcaccaga aactgaaacg aattcaatct atctcaacga 120

acctaactct attacaactt caa 143

<210> 33114

<211> 391

<212> DNA

<213> Zea mays

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<400> 33114

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gactaaaatc aatcacgggt aaacaatata atagatacta taactatata taaagaaaca 120

ctaatactga ggggtctaatt atttacagca cctgatttta ttacgagat tttcactgac 180

cctatttact atatagctac acctaagttc aatgtaacgg ccttggttta atcagctcgg 240

aatgaagaaa ctcttgagct tgcctatatt actactttgt gaaatgactc cctttgtgta 300  
 ggttgactta taacctaaag gcccaagtca aataccacta cctataacgt tatcatactt 360  
 attgccaatg gcgacagccc ttcacccgcc c 391

<210> 33115  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B12

<400> 33115

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 ccactgcatg ggccggcacc cccatcaagg tgggttcctt cggcgagggc cgcataacca 180  
 tgcgcatgac cgtgtgcaag cccaaggctc ctgcgtccgg cagcccctgg tactgtccct 240  
 accgcgtcaa gtacctgtgc cccttctacg gctagcccc tagctacctg accggcgagt 300  
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 agaacctgca gctgtaggtg atcc 384

<210> 33116  
 <211> 73  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B4

<400> 33116

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 gagtctatat cgc 73

<210> 33117  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B6

<400> 33117

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 ggcaagagggc aggtcatgat caggccgtca tccaagggtca tcatcaagtt cctgacggtc 180  
 atgcagcgcc atggctacat tggagagttc gagtacgttg atgaccaccg atcgggcaag 240  
 attgtggtcg aactcaacgg gaggtgaac aagtgcggcg tcatcagccc tcgctttgat 300  
 attggcgtga aagacatcga gggatggact gcaaggctgc tcccgtccag gcagttcgga 360  
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 g 421

<210> 33118  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-030-Q1-K1-B7  
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 gcaaacatgt cgaggaggaa gaccaggag ccaaaggagg agaacgtcac ctttggaacc 180  
 actgtccgtg aaggagagta tgtctttggt gttgctcaca tctttgcac cttcaatgac 240  
 actttcattc atatcaccga tttgtctggg agggaaactc tggttcggat caccggtggc 300  
 atgaaagtga aggctgaccg tgacgagtcg tcaccttacg ctgctatgct tgctgctcaa 360  
 gacgtcgcac agcgtcgcaa ggagcttggc attactgcac tgcacattaa gcttcgtgcc 420  
 accggaggca acaag 435

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 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-030-Q1-K1-B8  
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agggccggcg tgctcttgat ctcaaccaag gcggtgtctcc gctccgggtca cccgtcactc 120  
 cacgcaaaca tgtataggat gaagaccatc gagccaaagg acgagaacgt cacccttgga 180  
 cccactgtcc gtgaaggaga ctatgtctat ggtgttgctc acatctttgc atccttcaat 240  
 gacactttca ttcattattac ccatttgtct gtgatggaaa ctctgcttcg gatcaacctt 300  
 ggcatgaaag tgaaagctta tctttaccta gacttcaact tacgcttgct attcttgctg 360  
 cttaat 366

<210> 33120

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C1

<400> 33120

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 agaggagaag aaggcggagg tccaagactg gcacggcggc ggcggtacc cggggcacgg 180  
 ctgcggcagc agcggaggct accctgggca cggcggcggc ggctgcagcg gctaccgcga 240  
 ctgccggtgg ggctgctgca accgcgggta ccatggcagc tgccggtgct gctcgcaccc 300  
 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 360  
 aatgagatgc gctgctacta tatatacggg tacgtatgcc ctatgggaaa cagagcacac 420  
 gcgtagtacg c 431

<210> 33121

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C11

<400> 33121

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<210> 33122

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A10

<400> 33122

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agcagtccgg tggaggcgcg gacgacgact gagagtacgg ctctcccgg tacgactcgg  180
agaagtacag gaaggaggag aaggagcaca agcacaagga gcacctcggc gagatgggct  240
cccttgccgc cggcgcccttc gccctgtacg agaggcacta ggccaagaag gacccgtagc  300
acgcgcagcg gcacatgacg gaggagggct                                     330

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<210> 33123

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C12

<400> 33123

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gaacacacgg cgtatggtat ggtacacagc aaggccgtgt tgttgctgta agttttgtaa  180
tttctgtttc cttcttctcg gtttcgcagc atgcagttgc tgtatatgat ggaagaacac  240
tctgttactg ggcattgtgc gcggtttcca cgcgtgtaag taatgtagaa gtcgctatgg  300
taggtatttc cataccgtca ttagtggatc attgaatttt tttgtaagaa ggttattgca  360
atgccctttt tccgggcatg aataagaaaa aggaaatatg cttatatgca tggattaat  420
aaaaaaaaaa aaaaaaaggg cgg                                           443

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<210> 33124

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C3

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gctcctgctc gccgttgctt tgctcgccgc ctctctttac taataagccc atgcgggcat 120  
acaagataag aaggcgtagg tccaacactg gcacggcatc cactgctacc cctagcacag 180  
ctgccacgac agctgatgct aacttgagca cggatgttgc cgttgatgat gatacccgta 240  
ctgtcgggtgt ggctgctgca accgcgggta ccatgacgtc tgcttgagct gctcccaccc 300  
ttatcagatt ccagatcata tgtac 325

<210> 33125  
<211> 255  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cgccgtcttg gccgccacag tcccaggctt cgtggagaaac tcttaatccn ncgattccct 180  
tcttcgggtg accgcgcccc tgatcgcgtc tanntctgct cgggtttctc cctcgcccc 240  
tttagggaaa tcggc 255

<210> 33126  
<211> 135  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-030-Q1-K1-C5

<400> 33126  
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gggacaggct caaacataca aaaaactaaa cactactata atatcaccat aatatcaatt 120  
cacttctcgc ctttt 135

<210> 33127  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E11

<400> 33127

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gcggtacaaa gatcagtacc acgagccgtc taccaaaagg aggaagctcc cattcaaaaa 120  
gtgcatctgc acaccaacaa tgcttgatct atttacttcg catcatgact ccctgcattt 180  
tagctaccga caaccctatt ggccta 206

<210> 33128

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E3

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ctggagggtgt ggagggcggt ggcttggggt ctagggggtt ggaggctctg cgctcgcctt 180  
ccttctgcga cgacgaagca ggctgcgcct cctcaacgcc atccagcgag aaggatggta 240  
tatgaatgca tacaacctaa gcgatgagat tcggtgacct cccttcgtgg gtagtcgaac 300  
tttctgcact tattcgcgaa gctatcttgc gtgtgcgacg ccggtgtcgg tcttggtg 358

<210> 33129

<211> 198

<212> DNA

<213> Zea mays

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<400> 33129

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ctggagggtat acctatccag cattgatcca gggaccacgg tgactgtgaa gtgacatgga 120  
aagccagtct tcatcagacg ccggacggac tacgacatct atctggccaa cagtgtgtat 180  
gtggcactct tgcgccac 198





<210> 33133  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-F2  
  
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 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180  
 gggcaggtga gctccgccat cgcgccctgc ctctgctacg cccgcggcac ggggtccggc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-F7  
  
 <400> 33134  
  
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 <212> DNA  
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 <223> unsure at all n locations  
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 aaagagggaa t 71

<210> 33136  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-G7  
  
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 tgggcacatc acttcagaat ctgttcctgg atgatgtaac tgaaggagac acacagtggc 180  
 aaagagtcaa tgctttttaa cattgatgag atggtcttca gcttataatt gttgtatctg 240  
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 aaag 304

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-G8  
  
 <400> 33137  
  
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<210> 33138  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-G9  
  
 <400> 33138  
  
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 atggtcgcct tcctcggtt cgccgtgcag gccgtcgcca ccggcaagg ggcgtcaac 180  
 aactgggcca cccacctgag cgacccgctc cacaccacca tcttctacac gttcttgagg 240  
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 aaacttgacc cgagaccagt acctgcgcta cgccacgagg gtgcgggttct acaggagcta 180  
 catcggccag ctgaagaagg ccatagacca tggagcgaaa cgggctggct acttcgtctg 240  
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 <213> Zea mays  
  
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 <400> 33141

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<210> 33142  
<211> 317  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-029-Q1-K1-H12  
  
<400> 33142

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cacccaagcg aaagaaagcc aggttcatga taccaaagag tgctcaggtg gacagtgagg 180  
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tcttgtagca gttcttg 317

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<211> 208  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-029-Q1-K1-H2  
  
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ctttgtcgcg cgcggcatcg cgggtgctg 208

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<211> 297  
<212> DNA  
<213> Zea mays  
  
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 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H3

<400> 33145

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 cgtcattaag aaccgtccct gcaaggttgt tgatgttatt acctttaaga ctggtgagca 240  
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<210> 33146  
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 <212> DNA  
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<223> Clone ID: LIB3068-029-Q1-K1-H4

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 ccctctgcat ctttttctga ggtaagcgga ggtggggaag aatggggcgc ctctcaccc 180  
 ggaggcggcg gcggcagggg tgggggtggg aactaataga gctccacctg gtgtaccggc 240  
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<210> 33147  
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 <212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
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 tacgcctcat cccctctgca tctttatctg agagaagcgg aggtggggaa gaattgggcg 180  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-029-Q1-K1-H7  
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 <213> Zea mays  
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 ggggcctgcc gccgccgcgg cggccccctc tcggatctct tccctcctcc gcctcatccc 120  
 ctctgcatct ttttctgagg taagcggagg tggggaagaa ttgggcgcct tctcaccctg 180  
 aggctgcggc ggcaggggtg ggggtggaga accaatgtat ctttgactgt gattccggcc 240  
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 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A1

<400> 33150

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tgagccagaa cccgagccag tgaaagagga agcaccagaa gctgaaccgg atttgctggg 120  
tctgaacgaa ccgaaccctg ctgcaactgc gatagaagag cagaatgctt tggcgctagc 180  
tattgttccg atagatgatg ctccgaaagc tgctccact tttggaaatg gagtcactgg 240  
ctgggaactg gcccttgtga cagcaccaag ttcaaagag accgccgttg cccaagcaa 300  
gaaactggcc ggtggtctgg acttgctgac ccttgacagc ctgtacgacg aggcgaaccg 360  
gagagcgagc cagccagcaa gctacaaccc ctgggaggcg acccccgacg cgctgcccc 420  
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<210> 33151

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G8

<400> 33151

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aaaaaatgga caatccaaaa ctacgcacct cacttggt acccctctta tagatccacg 120  
tttattacac ttctatccat tattaaactc ttttataatt tatccaaact tcaattcatt 180  
gacctaactt 190

<210> 33152

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G9

<400> 33152

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gtagcaatag caggggtgac cgcttgcttg gtttggtgac ctgcgtagca cttagattg 120

tgtatctaaa gctgtaggga ttcattgttca tgcgattatg cttggatata ccgagtgaca 180  
 tcgtcgaaca taaagatgac ttgtacattc ctcttgttca tcgagagtca tgtgactttt 240  
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<210> 33153

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-H1

<400> 33153

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 gcacagtatc aaagatcttt tagaagcaca tactcctccg gggggtcgat taggacgtgg 180  
 gcataaaggc ctttatgata caatcaataa ttcgattcat tttcaattag gccttgctct 240  
 agcttcctta ggggttatta ctcccttagt agctcaacat atgtactctt tacctgctta 300  
 tgcattcata gcacaagact ttactactca agctgcttta tatactcadc accaatacat 360  
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<210> 33154

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 tcaaacgctc caagacctag ctaggattgt aggtgctagt agtgaggat cagagtgaca 180  
 aataaaggag gaacagtaaa acatctagct tgccagtggc gtggccagcg aagatcccta 240  
 gatccatagc gcagtgccag gggcactcta tctatcagca tttatattgg acgagattgc 300  
 ggctagtgtg catgccattt tggagcctca ttact 336



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 <212> DNA  
 <213> Zea mays  
  
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 tcaagagtgt ggagaagaag gatccaactg gagccaaggt gaccaaggct gccgcaaaga 180  
 agaaatgatg tgtctggctg gttctgtgtt tgcttgaggg aaacctagtg gaaacataaa 240  
 atatctcgtc ttgttcacgt cattgtctga actatgctcg caacgtttgc ctggctcgatt 300  
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 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggatcgcgtc gtcccgtgtc ctgctgccgc ggaaccctcg ccatggcgga ggcgcccag 120  
 accgccgccc ccaccagcc gcctcccgcg ccggcggtt cgccccgcc tcccaagtcg 180  
 gggatcccgc cgcggtacga cctggacgcc aagtgggacg cgtgcctcga cctctccatc 240  
 cgccgcgtcg cctactcctc cctcggcggc gccttcgcgg gcctcctcct cttccgtagc 300  
 cctactactc gctgggcacg agntgccctt ggagctggtg tggggatagg ggctgcatac 360  
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<210> 33157  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-H8

<400> 33157

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cgccggctgc cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc 180

cgtccaagtc ggcgctgggtg aacggcacgg tgggtgctggg cgcccacgcc atcccgcggt 240

gggagacgtc cggcttcgtg gagtacatcg agtcggggca caagcagggg gacatgctgc 300

tgggtgcgtgc cgcaggcgcg cacaccgtgc ggggtgggcaa ctaggcgtat 350

<210> 33158

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A3

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gtagctcacc tcacaccaca cagctggcag acagccagac acgcgctgct ttctgatctc 120

tccccggatc ggaggctcct cccaacatac caccctgcc a gccgcgccgt cacgtccacg 180

cgggccgggc accaagcaag catggatatg gtttcgcagt ccgagcacct aagctacgtg 240

cgctggacct actgcaacac cgtgctcgc 269

<210> 33159

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A6

<400> 33159

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gatgaagagg gagggatggc agcacggcgc cgtccggggc agccgcagca aggtgcttag 120

gacggccgtc ggcgacgaca acttcgacgc cgacgcggtc gtggcggtg gggcagcggc 180

ggctgctagg aatccgacga acgcgttccg gagcacgggc aagggccggc tggcccgatg 240

ggcgggctgg cacgcgcacc cggctcttcaa ggcgcgcgac aaggtcaagg gcgcgcgcaa 300

gct

303

<210> 33160

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B1

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cggcggttcg ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta 120

ctgcgaggtc ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcagctt 180

cggcttcgtc accttcttca cggaggatgc atttgtgaac gtcatttatg gtatgaactg 240

caatggatct ggactgtcgc aacatcaccc 270

<210> 33161

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B11

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gttgagtacc gctgcttcgt cggcggcctc tcctgggcca cggacgacca ctttcttcac 180

aacgccttca gcacctacgg cgaggtcctt gatttcaaga tcattcttta tcgttagacg 240

cataggtccc gcggcttcgg cttcttcacc ttctgcacgg aggttagcgat gcggaacgcc 300

atcgaaggca tgaacggcaa ggagctggac tgtctgaaca tcaccg 346

<210> 33162

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B2

<400> 33162

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a 61

<210> 33163  
<211> 54  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B3

<400> 33163

aaaaaaaaat aaaataataa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaac 54

<210> 33164  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B9

<400> 33164

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ggaggataaa aaaaaaaaaa aaaaaggtct accaatTTaa caattcacia cttttcttccg 120  
ctttcattca acataatatc cttttttata gccgtaatta ttttaaattc attttcctta 180  
atttatcaac ttcattcatTT taaaaaccc 209

<210> 33165  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C11

<400> 33165

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agaagttgtt tatttgtatc tcatcttctg agtcattcgt cgctgcaatc ctcaacgaca 120  
acctcattcc acttgcttca ttgtcctgca tcatactttg ttacagttct cttgtaataa 180  
ttggcttctg cttcatatgc agctagtaat aatattttat tctcttgtca tatecttatg 240  
aaactttatt cttgtaataa gtcggcttta cctcttcgga gtttcttata cataaactca 300

ttctatttct cttgagcact taa

323

<210> 33166

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C5

<400> 33166

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aatgagccgg ggcattccagg gatggagatg aagaagatcg cctgcgccgt tcttgtctcc 120

gcctcggcca cctgggcgct ggccgcggag g 151

<210> 33167

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C6

<400> 33167

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ttggatttaa agctggtggt aaggattata aattgactta ctacaccccg gaggacgaaa 120

ccaaggatac tgatatcttg gcagcattcc gagtaactcc tcagctcggg gttccgcttg 180

aagaagcagg agctgcagta gctgcggaat cttctactgg ttcattggaca actgtttgga 240

ctgatggact taccagtctt gatcggtaca aaggacgatg ctatcacatc gagcccgttc 300

ctggggaccc agatcaatat atctgttatg tagcttatcc attagactct atttaaaaag 360

gttctgttac taaca 375

<210> 33168

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D1

<400> 33168

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cgggtggaagg cggaggcgcg cctttcgcac cgcaccctct gagctctgac cctgctccgc 120  
 gaagtttttt tttttccttc ttttttgaca aaagcagccg cttcatcaag catctagacg 180  
 gccgggttcgg tgcgggtcgc ggaagtacag cccagggtggc ctgccggcct gttgtttggt 240  
 caagctgagt gggcgcgcg gtagccatgc ctcaactaac tgctgacctg taacatcgaa 300  
 atggtctgct ctgctctcgc tgggtccgc 328

<210> 33169  
 <211> 187  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D2

<400> 33169  
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 aaagagaaaa aatataaaaa aaaaaaaaca gaccaaccaa tctataacaa tctcatcttc 120  
 ccatacgctt gcacccctaca tccatccat tctatcgctc cccttaattt cacttcactg 180  
 cccttta 187

<210> 33170  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D4

<400> 33170  
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 gagggataag ggccttgagc ccttcgagtt cgaggactcc gtcgcccattg ctttcttcga 120  
 cctggagaac ggtaaccagg agctcaagag cgacctcaag gacctttaca tcaactgtgc 180  
 tatccatctt gatgttgcct ggagca 206

<210> 33171  
 <211> 110  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D6

<400> 33171  
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 tggggccatg gtgcctatca tgacgtccca cttecgacagc gccaacatgg 110

<210> 33172  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D9

<400> 33172  
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 tcatgcgcaa tccatgcaca cattgttcgt gtccgctctc gtgagaacag gatgaaccgt 180  
 gagccccgc agcgcttcag gcgcgggat gatggcccaa ggccagggtca gggcccaccg 240  
 cgcccagggt ctgctgccac agcagctcct cctgctgccg ctctctgtac ctaagttcag 300  
 gaatgcgatt catggcttag ttctctcacc tatgggataa tggacttttc ctgttttgaa 360  
 aaccaatgta c 371

<210> 33173  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-028-Q1-K1-C8

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 atatggttac attattaacg tctggctggt tcgtcacgca gctaccaaca tatctatctc 180  
 ttctccgtga tctgcataac aaattagata atttgaatcc ttcaatcaag ctttttctta 240  
 gtactttctaa agcaaaatat actcctactc attgccataa gactacacaa gattttcttg 300  
 acaaaatcca gccactattc ttagttttta ggaagcatct ggatggagca gtttcaatga 360  
 tc 362

<210> 33174  
 <211> 128  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-D1  
  
 <400> 33174  
  
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 aaacgggaaa agtaaattta aaaagggcga gccaaaccaa cctaaactca acaaccccc 120  
 caacaaaa 128

<210> 33175  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ctccgtctgc gagttcttca tccagggctc ctac 154

<210> 33176  
 <211> 53  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-D8  
  
 <400> 33176  
  
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<210> 33177  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-D9



<400> 33177

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aatgtaaaat tttagaaaaa aaaaaaacca caaacaaaaa aaaaaagggc gcccctttta 120

aaaaatccgg gcttactttc ccatctcttc aacatcatat cttttttata ggtcccctaa 180

atttaattca ctcccctaaa ttttacaacc tccctacttt aaaacccctt tctttcccca 240

acttaattcc ctttccccac attccccctt ttccaac 277

<210> 33178

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E11

<400> 33178

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aatttaaaaa aaaccaaacc caaacacaaa aaaaaaaaaa aaaaaaaaaa aacgccccct 120

ccccctaaca aaaaccagcc ttcccccttc taacattcct caactttacc ctcccttcat 180

accaacccta aattcattct tttgcccccc cttatacaaa ttcttttccc tatattcccc 240

atctttctccc cttttaaacc ctttgetacc cctacctttt ttccccctct ccctttaccc 300

catttacc 308

<210> 33179

<211> 361

<212> DNA

<213> Zea mays

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<400> 33179

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tgttttagcca tgtgttttgc aatctgctca taacgaatgg ttttacattc taggatttct 120

attgcttgca ggtaggttac tggttgcact tgtttgtgaa tacttggagt gaccacaact 180

aagtcacaca atgaaacttt aagtgttaacc tggtgaccgg tgaccattca taatatttca 240

tttttacatt ttggatatca atatccatta atatgtttcc ctattttgtt tgtatatcag 300

ctgaacttct gatagaatga actgaaagac ttctctaaca aaagtggagc ttgagggagc 360  
a 361

<210> 33180  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E2

<400> 33180

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cgcagcaggg tggcaccgtc cgtaagaacg gcttcacgtc catcaagaac cgccccctgca 180  
aggttgtgga ggtttctacc tcaaagactg gtaagcatgg ccatgccaaa tgccactttg 240  
ttgccataga catattcaac gggaaaaagc tcgaagatat tgttccttcg tcacacaact 300  
gtgatattcc gcatgtgaac cgtactgagt accagctgat tgatata 347

<210> 33181  
<211> 201  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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aatcaagctg tggccgcgta aaggcatcaa ggcggtangc ttacatcaaa ctaggaaacc 120  
ataagctaca ttcaaataga cttaatgccg ggattattct taataagaac attgctttca 180  
aacaacttgg gtattttttt t 201

<210> 33182  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E6

<400> 33182

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acacaaacaa agggcattgg tcaaaattaa aaaacagagc cacacacccc accatacaaa 120  
aacataacac ccaaatcaac ccacctaaac ccaaccact agccaaaaat taaacaacgt 180  
tcataacttg caaccccttt aaaaaaacca aattacatta cacccaacac aacccactt 240  
cctcccctaa actcccactc aaacaaacac cccccggtcg ccctataaaa aaattcctca 300  
atcaaaaacc cc 312

<210> 33183  
<211> 298  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-028-Q1-K1-E9

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gagggagcca gtgagcgagc cagactaccc acctactagg tccagcggca atgaggggca 180  
gcgagatgtt gaccgcctcg gggggcaccg gcacggcccc gtccacggcc tcctcgctcg 240  
cggcagcggc ggcggacctg gttgccggag cggggggctt gggcgccatc ngcgtggg 298

<210> 33184  
<211> 204  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-028-Q1-K1-F10

<400> 33184  
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ttcgctgctc gcttctacta cctccgcggc cacctccacc agacctggtc cgtgccccgc 120  
tacggcttcc agtacttcct gccggcggcg aagaaggga tcaaccagca gatcgagctg 180  
gccatcctgc gggccgacag gatg 204

<210> 33185

<211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-F11  
  
 <400> 33185  
  
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 aaggataata aaacgtttga ggaagggttac cgcttacgat atacctatat atagatagtg 120  
 tagtgttgta gtgtgttaag tagatcgggc ccatataaag ttgcaatgta tctgcaatga 180  
 gttcatctac tccgggggtgt tctccgcaact tctcaagaaa gaaatagttg gaaattcccc 240  
 ggatcgtctg cgcttggcctt ggtattctta tactgaatcg ctgttggata aaagaaagca 300  
 taaagttttt aagcctgcgt tctcgttggc gaaaccac 338

<210> 33186  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-C7  
  
 <400> 33186  
  
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 gcaacgagtt caacctcgac tccaaagcca ccatcggcgt cgagttccag acccgacccc 120  
 tcgtcatcga ccacaggagc gtcaaggccc agatctggga caccgccggc caagagaggt 180  
 acagagctgt gacaagtgtt tattacagag gtgcactggg agctttgctt gtctatgaca 240  
 ttaccagacg ccagagcttc gatcatatac cccgctggct 280

<210> 33187  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-F2  
  
 <400> 33187  
  
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 cggacgcgtg gggtctagat cgcga 85

<210> 33188  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-028-Q1-K1-F3  
  
 <400> 33188  
  
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 gttccggccc cgaacccgtc ngctgctggc ggaatgctcg agctgctcgc gcggcgagag 120  
 cgggcgcgcg cgtgccggcc gggggacgga ccgggaacgg cccctcggg ggccttcccc 180  
 gggcgctcgaa caaccgactc agaactggta cggacaagga agaaaatgat cctgagaaaa 240  
 tgcttttcacg tggaacagaa attactcttt atttgagaga tgatgacaaa tatgagtttg 300  
 ctgaccctac caagattcaa ggcttagtta agaactactc gcagtttgtc tcattcccca 360  
 tatatacatg gcaggaaaaa tcaagaacac atgaggttga agaggaggaa agatcaaaaa 420  
 ggtgaagagc tactt 435

<210> 33189  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-F6  
  
 <400> 33189  
  
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 atcaagctgc attatagacg aaccacgaag tcagcacaaa gcagaaaaag cagagattga 180  
 agaagatgcg agtacaacc tcgctggaag tgctgatgat ctacctggta atatccatga 240  
 tgatgagcaa aagaacatcc ctgaacatgg tgctgaaatg acttctccag aagccaaatc 300  
 tgttctg 307

<210> 33190  
 <211> 156  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F8

<400> 33190

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tgcagaaccc tcagctgcac gagttccaat tccacaactt tccgacttct tacctacgct 120  
gagctttctca tcgtgctgca caacattatg gcttac 156

<210> 33191

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G1

<400> 33191

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atttaaaaaa ggaaaaaaaa aaaaaaaaaa aaaaaagata aaactaaaaa aaggggagc 118

<210> 33192

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G12

<400> 33192

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tgatgggagg aagaacantg gcccgccgg tcgtacttgc gctggtgacc atcatcgcca 120  
tcgcgccggc cgagggggac caggtgaagt gtggcggtg ctctccgtgc ggcggcgccg 180  
actgcccggg gctgtaccg ttgccgtcct cgccaacgta ctactactac agccctaccc 240  
caccgcgac ctaccccgga gagtctcgt tatactacca gtcgccgccc gcgggcgcg 300  
acatccagat cgggagcg 318

<210> 33193

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G7

<400> 33193

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gggcgtgtgg agcatcatca cccggcccat gttccagagc atgctgagcc accgcggcga 120  
cagcgggtgc cagggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt 180  
ccccggttc ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt 240  
cgccagacg tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc 300  
ctggggatac tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg 360  
accatacag ctaactcata agtacaacta caggctcgcc gggcaagcgc 410

<210> 33194

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H12

<400> 33194

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tagtcgcgtc atcgcgcaac acggcgcgta gagcatcatc acccggccca tggtccagaa 120  
catgctgaac cacaatgtct acagccggtg ccagggcgcc ttctacacct acttcgactc 180  
catcgaagcc tccatcaagt tctcagctt cagcaccacc 220

<210> 33195

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H3

<400> 33195

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gtgggaatcg gtcgtctgac ttgggtatag ggactaaaga ctaatcgatc catatagtag 120  
ctgtcaccct aataaggttt acttaggata gctggagcct acacgagtac tatcgggtat 180  
aagccaatga ttagaggat ttggggcgca tcgccctcga cctattctca aactg 235

<210> 33196  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-H5  
  
 <400> 33196  
  
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 gggcccccca gggacccatc ctctgcatca ataactgtgg cttcttcggc agcgcgggcga 120  
 ccatgaacat gtgctctaag tgccacaaga gatgataacg aagcaggatc aggccaagct 180  
 ggctgcctcc tctatcgaca gcatcgtgaa cggcagcgac gccgtcatgg agccggttgt 240  
 tgctggcagc aacacggtag tagctgttgc ccaagtcgag ttgcaaacia tgaacgtgca 300  
 gcagcccgtc gatgttgccg gaccacgaga ggggggtggc gcgatctcca aaggggggaa 360  
 ggtagggccg aaccggtgca gcgcctgcaa gaagaggggtt gggctcacgg gattcaact 419

<210> 33197  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-H6  
  
 <400> 33197  
  
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 tacacttcac aatatggcaa gagctcttgc ctacggtgga gcagctgccg cagctggctt 120  
 cgtctcgccg tggcttgccg tgctcgggtg gccatgctc tccgtctggg ccatcacgct 180  
 cgccatcctc ctctgtggcg acagctcaga caaccgaga ccaagataca atcctgccgt 240  
 tagtgccgct atagcagctg gtggcggagg gggctgtggt ggcggggggc gtggtggtgg 300  
 agggggctgt ggtggcggag gcggtggtgg agggggctgt ggcggcggcg gcggcggcgg 360  
 atgctagagt tcatcgcatg catccgatgc accagcggca tcagttgtgc tggctctgcag 420  
 aagctaagat g 431

<210> 33198  
 <211> 187  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H9

<400> 33198

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cttcggtgag ttgaaaataa gcatagatcc ggagattccc aaatagggtca accttttgaa 120

ctgcctgctg aatccatgag caggcaagag acaacctggc gaactgaaac atcttagtag 180

ccagagg 187

<210> 33199

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-A1

<400> 33199

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ggtagatagg tgaccaata aggcaataat gaacccatgg tcggagtagt ggtgtcatta 120

catgaacata agttactatt taattagcat ggagaataga aggtggcgat catttcctta 180

gctcctgtta gtgtccctga acataagtta cccatggctt gagatgttac atctttctga 240

gctatcttct ctcggtttgt acttctgtta gtgtccctgg caccatatca ttcatttgga 300

gatattcaat cagctgtgtg gctatgtaaa 330

<210> 33200

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A10

<400> 33200

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acctctcta catgaccaag tacgcctaca acagctacat gaacatgatg gacctcgcgc 120

cgggtactt cgaccgagtc ttctacgact acgaccactt caactgatcc a 171

<210> 33201  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-A11  
  
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 ggtgaaggac tactggatcg tccgcaactc gcggggcccg aagtggggcg aggctgggta 120  
 catccgtatg gagaggaacg tcaacgccag cactgggaag tgcgggatcg cgatgatggc 180  
 gtectacccg acgaagaagg gcgcgaaccc tcccaggccg tctccaaccc cgccaacacc 240  
 gccggctgcc cctgacaatg tctgcgacga gaacttctcg tgctccgcgg gcagcacctg 300  
 ctgctgcgcg tttggcttca ggaacgtctg cttgggtctgg ggcttgttgc cttttcaggg 360  
 cgccaccttg ctgtaagatt accccaactt gttgtccccg ggctattctt ttttttaaata 420  
 tcataaattt taattttttt t 441

<210> 33202  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-028-Q1-K1-A2  
  
 <400> 33202  
  
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 tgctactgct agccaagtca tcgtgtcgcc cgccactggg agtcccaccc agcagtggac 180  
 gctcatgctg tgatctcatc tacggctcat gagtcatgac tgtgggggca gggcagtact 240  
 gcaactgcaac agctagctgg tgtgttttgt gtatatatct ggcgagctag gttgttaaag 300  
 caagcattag ctattttacc agtacaataa tgcat 335

<210> 33203  
 <211> 216  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A3

<400> 33203

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cgggcgctc ttttagaaac agggttgggg gccctccat tcaacggggt agccttttta 120  
taggggtccac ttaaatgaac tcatttgtcc gacgtttaaa acgtatatta ctgggaaaaa 180  
ccttgattta actgacttaa tttttttaac gtccaa 216

<210> 33204

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A7

<400> 33204

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ggcgtgcac gacatcgctt ggggggaggg cggggtcttc gcctccgtat cggccgacgg 120  
ctcgtccgc gtcttcgacc ttccgggaaa ggagcactcc accatcgtct acgagagccc 180  
ccgccccgac acgccgctac taaggctggc gtggaaccgc tctgacctcc gctatatggc 240  
cgcgtgctc atggacagca gcgcgtcgt cgtgctcgac atacgtgcgc ccgggggtgcc 300  
ggtggccgag ctgcaccggc accgggctg cgccaacgca gtcgctggg cgccgc 356

<210> 33205

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-A8

<400> 33205

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cattacacgc ggcataccct cncaccaanc cncattaata gtctccatat caaccaacca 120  
attcgacccc atgttacaca cttctgcaca aaaaacaata caacatctcc tactagagct 180  
cccttccta cagcaaata ctaaggctac attaaaacc ttctgacctt cactatattg 240  
cctcaactat gatcgacacc atcgctgctg tcattcacia catacattct cctggggtg 299

<210> 33206  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-028-Q1-K1-B9

<400> 33206  
  
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 gatgcgccga ggtgaccgtc gtctcagcat cacnagagt gcgggcatga atgggactca 120  
 gctctatgcg gtctgatga cagtttgctt ggtggcttgg gtaattatgt tatggccttg 180  
 gcagagcaac aggaaaaaaaaa agggccttaa aataaggtca tgataattat tttgtatcta 240  
 ccatagtagt tgtttgatat cgacgcctct ctctctctct ctctctggta ttactttata 300  
 tgtttgttac tgtcctttca tttgaatcta taggatggtc aaagtggctg atgaaagagg 360  
 agaaagaaac aa 372

<210> 33207  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-028-Q1-K1-C1

<400> 33207  
  
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 gccgggacgg gagccatacg ctggggcgct tgagccgat tgctccagct tggacgcctc 180  
 ctctggatag ctgatggact cgcttcctta actcaagagt tgccatgtgt cttcaagccg 240  
 cctgatgag agaaccaca aggagatcca ggccaagaat gacaacgctn ggacggacat 300  
 ggggctaacc ttctagagca ttgagaccat atgcagagag gtccagatca agaacgac 358

<210> 33208  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C10

<400> 33208

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aagaaaatgt ttaatttatt aaataacaaa acacaaatac acaaactcct aaaaccacaca 120  
ccactctaatt atttccatcc tcccgcaccc cacataacaa ccccatTTTT tttcctttt 179

<210> 33209

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C3

<400> 33209

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tccttcgccg gaggcgaccg cccgtcaaca ggacttgatc tactactcac tagcgggtgta 180  
gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat ttgtctgtca 240  
cgactttctc cccagatggt cgtgtcttcc aggtcgagta tgccaccaag gccgtcgaca 300  
acagcgggac tgttgttggg atcaagtgc 329

<210> 33210

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G5

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tttttacaac aatctttaat gaaaaaactt tatcattaac ctaatttaata ataatttaaa 240  
ttaaattccc ctttttcaaa attgattaat atggaaaaat cctgttataa cctactttta 300

taaaatttgc gtaaacttaa ttttaaaata ttataactctt tttaaaaat 349

<210> 33211

<211> 119

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C4

<400> 33211

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tcattgagtag ttgctaggtg ttgtagaccc atacatctat agactggtga gtaaggagac 119

<210> 33212

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C5

<400> 33212

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gctgcttgat tggagagatg tacattgccac cacaggaaaa actggcattt ctgtaagccc 120

agttaatttt tgctcggcca aaaaaaatta atgcgatgtt tggtttctat g 171

<210> 33213

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C6

<400> 33213

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gctaataatta atatggtcga gccaatcac gattcctcat atcttattca ctttggcttg 120

accaatcctc ttaatcactt caatctctat tatgatcata tttatgcata gtgatttctc 180

aggacttgtc catatattca aaccaatata gagaccatat tatatccatt tgcattgtct 240

cactgggttat ttgaccttgt gttgagcctt gttcactgat cattatacac tattcaagta 300

tgttcatcat actgaatttc ctgttcaaca cttagcaaac ttgttagacc tttaaatgtg 360

<210> 33214

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E3

<400> 33214

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tctgcaggcc agtcggtctc gatccacggc cggccgaaga agaagacgcc gacgatgaag 180

gtgtcgggtgc tggcgctgtg gtcggcgggc gggcgctgc tgctggtgct ggtggcgcat 240

gcgccgtcgg cggcggaggg ctcccaccac ggcggcgcg gcctcaagct ggggtactac 300

aagaagacct gcccgggcgt cgagaacgtg gtcaagtacc acgtcgccaa ggccatcaag 360

gccaaccgcg gcgccggcgc cgcgctcgtc cgcctcatct tccacgactg cttcgtcagg 420

gggtgcgacg cg 432

<210> 33215

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E5

<400> 33215

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gccggcacc gtgcggcaa tccgccacgg cgtggcgccg cccatcttcc gcatctacgt 180

ctcctggtcc agcggcaacc ttctgcaggt cgcgtgcctc cgcccgccga attcggacgg 240

tggcggcggc acggaggagg tcgttgggag tgtggtggag gtgaatctcg gcgacggtgg 300

cagcggtggc tcggaggccg aggagaaaat tgacgaggcg gagatgcgga agatcgagta 360

cgggtcagtg ccggccttcg cgctgctgca gagcaggaag aacaccctcg cagatgttgc 420

tactatgtcg cac 433

<210> 33216  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-E6  
  
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 gttttctccg ttgacgactg ctcgaccagt gcgcgcgctc gcgctgccta taccttacct 240  
 agccagagcg cggcgcgcga gagggagaac gaccaagagg ggaggagatc gatcgatcga 300  
 tcgatcgaga tggccttcct caacatggag cagcagacct gggccttcac cttcgggtatc 360  
 ctaggtaaca taatctcgct gatggtgttc ctt 393

<210> 33217  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-E7  
  
 <400> 33217  
  
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 ggcttgacag cggacatggg agacctcgcc gcctcgctca cgccttacct gcacagcgcg 120  
 ccgctctacc tgctctacga cgccaccagt atcgccaacg ccagccgcgg cctagcgccg 180  
 ccgccgtcgc tcctgggcga ctacgggtgc ggcttcgagt tcgccactac tccgacgctt 240  
 attaacggct gcggcacggc gctgcgcgcg tgcgccagcg acgtgtctgc ggcgggtcttc 300  
 gcgggcgagc tgttcccgtg gagcctgccg ccgctgctgc atcggtgcc cgttcgctcg 360  
 gctggagcc 369

<210> 33218  
 <211> 434  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3068-027-Q1-K1-E9

<400> 33218

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ccttcacact gaactgaaag aagcgatagt ccagggttaga tccttaaaat ctgtttatga 120  
ttttctcagta aaccattgat tttgtccatg tatatgttat ttgtcacaat atttacgtca 180  
ctttatgtcc aagtgataat atctgcaagt taatagtccc tccattccaa attgtaagtc 240  
attttgacat ttgtagcacc cagatatatg tttttttggg taacatagta aaaaactatg 300  
tatctagatt gaaaagctag aacaacttgc aatatagaac agatggagga ctaactcggt 360  
caattgtgta cattatgtaa gtactgcaat gtaattaatc tcttctatgc tattacggat 420  
acatgtcata catt 434

<210> 33219

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-027-Q1-K1-F11

<400> 33219

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cggcatattc aaaattatta gctacagttg ttcctgcatg cgccagattc tcatgtgaga 120  
tgataaaaaac gtcataatta tttgctaagt ttaatgacct acgtcagttt ctgcgtacta 180  
aaaactattc gctagttgag tcgttcgggc atattcaaaa ttattagcta cagttgttcc 240  
tgcatgcgtc taatgtcctt cgggtgaactt gtctgtcatt atcatttaaa aacgtatcta 300  
gatgcattat ggaagatttt tagtttcctt tggtatattt gagaagttat atattgtata 360  
taccgagaga tgcacctgtg tattatttgt tgtagcttcg aatgcgagac gtatggttgc 420  
agtcattnta ttgtagtta 439

<210> 33220

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F12

<400> 33220

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ggacaaatcc ataaaaatat aaatacacac taatatacaa aaaaactaat ctaccatact 120  
ctatattgcc tattcttaac ttgtcttggc tcaccacagt cttctt 166

<210> 33221

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F2

<400> 33221

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cggettcgcc attcgctcc ggtgccacg agctacgctt cctcctcttc gtacgctccg 120  
tctcatgacg tgaaagagta taaactgtca tgactgacag gcttctcacg aatctaattct 180  
tcatgtgctg aaccgtcgat cgacggcca tgctgcaagc ctacccccat gccatcatca 240  
atgcatacaa aactggaact gcccaagaag ctataacatg gtattagact gactaacaat 300  
gccatgac 308

<210> 33222

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F4

<400> 33222

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accgcgcc gccatcagcca tcagccatgg cgctggccgc tcgcctcgtc tcacgctccc 120  
gtcagctaca ttcggttcaa gcagcttttg cgaatggagg tgtcactcaa gttegtctct 180  
ttgccaagga tgcagctcca gctgaccgtc ctctgttag tggggatgat ctctgaagg 240  
gcatattctt tgaggtaaag aagaagtttg agacagctct tggcgtcctt aaaaaggaaa 300  
agatcactat tgatccagac gaccagcgg cagtttctca atatgccaa gtcatgaaga 360  
ctgtaaggga aaaagcggat cttctttctg attctcaaag gattaaatat accattgaga 420

cctttaccag gggca

435

<210> 33223

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F7

<400> 33223

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tgcttgcttc gtttactctt ttttttttcg tgtccccatt cttcttcgta gctttcactt 120

ttattttttt ttttttgttt ttctgggtga cggtattatc cggtggggga cgacgaggtc 180

gggatttaaa tttgtttcct cgcttgcttg atcgtggaga tccatctata atctatcatc 240

gtcaatcata agccatgttt tgtctgcaag aaaaaaaaaat aaaataaata caaatattaa 300

aaataacatt taatgctatt tatttta 327

<210> 33224

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F8

<400> 33224

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gctgtatcaa gggcatccca agaagcagct cagaaggaag ctgctcttgc aaggaggagg 120

caagagaagg ccatggctct tggagctgaa cctgagaaaag gaccacgtgt tactcgggtt 180

ctcataagat tcccaactgg agagcgcaca gagcggagat tctacagtgc tgcaaccgtc 240

gctttcctct atgactatgt cgattctcta gactgcatga aagcgcagaa gtacacccta 300

gtttcgaatt ttccacgcgt tacatatggt ccagaaaagc aatccctgac gcttgaagaa 360

gcaagcttgc a 371

<210> 33225

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F9

<400> 33225

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gggtcccggc gtgcttatcc gccccgcgcg gccatgtcga agcaaggagg gaaggccaag 120  
ccgctgaagg cgccaaggc cgacaagaag gagtacgacg agacggatct tgcataatctg 180  
cagaagaaga aagatgagga aaaagcactg aaggagctta aggccaaggc acagaagggc 240  
gcgattgggg gctcgggtct gaagaaaagt ggaaagaaat gagactggtc acccgtctcc 300  
aatacctaga ggatgataag gcagctgtct atctgtgttg cgcttcacta agtgtgattg 360  
taacagtggg acctcttggt ttctgtgttc cgcgatgttg cagttgggtg cttgatcgaa 420  
aaaaaaaaa aaaaaaggcg gccg 444

<210> 33226

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G1

<400> 33226

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cggaggaaga agcccgaacc aattaagcaa ttgaatccaa aatttgaaga gaactacatc 120  
aagggtcttg attatgatcc tgatcgagaa agggcacaaa tgaagaagct gcggaagcgt 180  
gtcaagagtg agatgaaggg ggcgaagcgt gagctgcaaa aggataatta tttcctgtct 240  
gctgtgaagg agaaagagag gaggaagcga gatgaagaga gagctgagat gtatggaaaa 300  
gccatggcgt tccttcaaga acaggaaagt gctttcaa atctggacagct ggggaaagga 360  
aagggtagga aaaggatgcg gtgatactct attgcagggg ggcagctcgg ccagtgtaaa 420  
tatacgggat t 431

<210> 33227

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G10

<400> 33227

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ccggccgtgc gtcctctctc ctctgtgcgt tcgcccgtct ccacagttgg tgcagaaaca 120  
gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atgggtctact 180  
gccgccgtgc tctctcacta ccagtgtccc accaccgtca tgcattgttt gcggcaattg 240  
ccggctacta tactccttcg tctccaatca tcaggcacca gcttgcgacg caacttggat 300  
tctctcctct cctctcctct cgttgcaaca aggcagtcca atgaatg 347

<210> 33228

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G2

<400> 33228

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gggttagtct cttattagct ctaggctcta gctagccgcg ccactccttc gtgtagccat 120  
cagccttctc atcgccacca atggccactg ccgaggtcca gaccccgacc gtctgtggcgg 180  
ccgaggaagc gcccggtggtg gagaccccg cgcgggccgt cgtgcccgag gagtctgccc 240  
ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccgag gagcttcccc 300  
cggccgagca gcatgcagcc gccgaggcgg aggccgcggc tcctgctggt gccgaggagc 360  
ccgtcgcggc cgaaccggcc gacgaggctg aggctgctgc tcctgctggt cccgaggaga 420  
ctcctgcggt cga 433

<210> 33229

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G3

<400> 33229

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tcacccgtgg tatgtcatta cctttagggc ctacctattc ccacttatca taagcataac 120

cctcagactt atcatctaca cccacaccca cacacgatct acaaacacat accgtcaata 180  
ctgacc 186

<210> 33230  
<211> 359  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-027-Q1-K1-G4

<400> 33230

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caggggtctct gttctgttca tcctcacact gattgagttc ttgtggtctc tcaaccagca 120  
tctgataccc aattcctcgc aaaaacctgc cacacgcaat gtccaagacc gagagcagga 180  
agctgtcgga cgactatgag gttgctggagg tcctcggccg aggcggattc tcgatcgtga 240  
ggcggngagt gagcaagtca gaggggaagg cggcccaaca ggtcgccata aagaccctgc 300  
gaaagctggg cccggccacc acgaccggcg ggagcacgcc gtcgcagcaa gggtcaaata 359

<210> 33231  
<211> 403  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-027-Q1-K1-E2

<400> 33231

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cactatcggg agtgggcatt ctgtatatca gaaatgcac aagtacatgt cagcatgcat 120  
ctgccattgg gagctaccaa aaatcatttc ttgcccatgt tctcagagac aaaagagtac 180  
tgatcctggg cttagctcaa gcaagcatcc attttgctgt ctcagccttt tggtttctct 240  
gggcaccaac catagtggct gacggaagg atgctcaact gtcagtaatc taccctgtt 300  
tcttggcatc aaggatgctt ggaagtgtg gttttccatg gttttacgga gccatagccc 360  
ccttncggaa cgaggacagc ttgacaatag cttacgttgg tgc 403

<210> 33232  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-027-Q1-K1-B8  
  
 <400> 33232  
  
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 gggctcctcgc cgcattgcctg ctccctcctgc ccaccgcctc ggctcgccacc gacgtcgcact 120  
 actgcagtaa gaaggactac ccggtgaagg tgagcgggggt gcagatcgtg cccgatccgg 180  
 tcgaacccgg caagcccgcc actttcaaga tctccgcttc tactgataaa accatcgaga 240  
 aggggaagct ggttatcgac gtcaagtatt tcttcttcta cgtgcactcg gagacccgcg 300  
 acatctgcgg agagacttcc tgcccagcga cgggcgactt cgtgctgtcc caccagcaga 360  
 cgctgccagg cttcactccg ncgggctcct acacgatcta catgaaagat gtccggggacg 420  
 ac 422

<210> 33233  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-B9  
  
 <400> 33233  
  
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 cattataata atcataattt agacaaacta attaagttaa tatatttata tatttaatat 180  
 attagtatat tatcctgaat catatgagag atatagttat acgctacacg tatgctatag 240  
 agaagtaagt ataagagtgt gctataagtt gtatattaga aaagtagcat gtaaatttat 300  
 agaaccaatt tttatctctc accctatgaa tttgagatag acttatatat aaactttgaa 360  
 aagttatgga atgtcacatt ctaaaaaata gcctactcca ttagttagat tccaattctt 420  
 cgaaatgaag aaacaaa 437

<210> 33234

<211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-C1  
  
 <400> 33234  
  
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 aagccacggc caccggcgcg atgaaaccgt cgctgtcgaa gaagaagggc aagaagaaga 120  
 agaagtcctc gctgccggcc gccgcaccgg cccctccgcc ggcggagggc gctgcggata 180  
 cggaggcatg tcccccgctg cccggaacca taaccctagc cgctgccacc gctgctgcgg 240  
 cgggtggtttc ggagacggag tccagcagca gcggcgaggc ctgcacgtgt ccatccgcct 300  
 gcttcaccgc aagctcgtct gggaccgcgt cctcgactc cttctctgcc ttgtcctcgt 360  
 cggcgctccac agcttcgtcg tcggccgccc gcgaggagcg gcg 403

<210> 33235  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-C10  
  
 <400> 33235  
  
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 aggtgtaaag ctccatacta gaataccgcy ttacattcta cgtgcttgct acttttatag 120  
 cgcttcata cttcaatcta attgcacttt agtgtcacct attttaaatg gaataacctt 180  
 ggaattacac aacttaaccg cggttaaac catttgcaac acatccaaat tgcgtcatat 240  
 cgcataggcc tttagagatc tggcttaata a 271

<210> 33236  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 33236  
  
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cagcgaggac gagatcctgg agtcggccaa cgtcagggcc ttcagcttca acgagctgag 120  
gaccgccacc aggaacttca ggccggacag cgtgctgggc gagggcgggt tcggttccgt 180  
cttcaagggc tgggtcgacg agaagacgct cgccccggct agggccggca cggggatggg 240  
cattgccgtc aagaagctca accaggatgg ataccagggc cacaaggagt ggctgactga 300  
agtgaactac cttggaacgc tgtcgcaccc ctaccttggt aagctcggtg gctactgcct 360  
cgaggacgaa cagcgctnc tcgtctacga gttcatgcca cgtgggagtc tggagaacca 420  
tctgttcagg aggagctcct a 441

<210> 33237  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-027-Q1-K1-C4  
<400> 33237

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atcttggtga gataaagaag acgaatggcg acactctaga gtatcaaaag gtcctgaacc 180  
aagaaatgag gcccgactc aaggaaatag tgtgggcttg gcaagggtgag caatcaaagc 240  
aaaagcagga acaacagtcg tgtaaaaaac ttatgagcta gtgcaatggt ttagccaat 300  
ttccaatctt tcgtgtatct gtgtagtttt tactctntta ttatccattt ttgttttccc 360  
gtgtaatacc aacaaaaact tgtgtagttg tgttattttc tgaggacaaa tttgtttcaa 420  
agatgtgttt a 431

<210> 33238  
<211> 268  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-027-Q1-K1-C6  
<400> 33238

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agattctttc atttctccat cctgagttct ttacctctct tctatctata gttctattca 120  
taggcattca tgaaaatttt accgagagaa aagataggaa gggagggttta attctggccc 180  
tatgggtgtg gaagcttttg tgatgttagt tcgatatctt acaagttgta aataacatgc 240  
aataatagca cgtaatttgt gaatattt 268

<210> 33239

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C9

<400> 33239

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tccatcataa acgagcaatg tctattgata ccgaaatata tcatgttaat cacaattacc 120  
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<210> 33240

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 33240

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ttggccatgt cgactctggc aagtcaacca cactggcca cctgatctac aagcttggag 180  
gcattgacaa gcgtgtgatt gagagggtcg agaaggaagc cgctgaaatg aacaaacggt 240  
ccttcaagta cgctgggtg cttgacaagc tcaaggctga gcgtgagaga ggtatcacca 300  
ttgatattgc tctgtggaag tttgagacca ccaagtacta ctgcactgtc attgatgccc 360  
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tctgatcat tgactccac 439

<210> 33241

<211> 54

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-027-Q1-K1-D10  
 <400> 33241  
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<210> 33242  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-027-Q1-K1-D11  
 <400> 33242  
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 tgaaaaaaaa aaaaaaaaaa taatacaaca accattctaa aaataccctt ctttcgtact 120  
 caaatctaca acatcttaaa ttttcctatt gaacctccta tctttaatat cccgacctac 180  
 gttctacaac atcttaacta caacttcctt ttccttcccc cacatattct tctttcagtt 240  
 catccttttt acgaacactg tattaataac ctataattcc ccaa 284

<210> 33243  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-027-Q1-K1-D2  
 <400> 33243  
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 ttggccatgt cgactctggc aagtcaacca cactggcca cctgatctac aagcttggag 180  
 gcattgacaa gcgtgtgatt gagagggttcg agaaggaagc cgctgaaatg aacaaacggt 240  
 ccttcaagtt ctctgggtg cttgacaagc tcaaggctaa gcgtgagaga ggtatcacca 300  
 ttgatattgc tctgtg 316

<210> 33244  
 <211> 427

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-D7  
  
 <400> 33244  
  
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 aggaagttca ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag 180  
 gacaagcgtt tcagtggctc tggttaagttg ccccatatcc ctcgccccaa gatgaagggtg 240  
 tgcattgcttg gtgatgccca gcatgttgag gaagccgaga agatgggact tgactacatg 300  
 gatgttgagg ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag 360  
 aagtaccatg ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggg 420  
 cctgggtc 427

<210> 33245  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-D8  
  
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 gcgggggagg aggaggacac gggcgcccag gtggctccca tcgtgcgggt tgaggaggta 180  
 gccgtcacca ccggcgagga ggacgaggac gtcctgtctg acatgaaggc gaagctgtac 240  
 cgattcgaca aagacggtaa ccaatggaag gaacggggca cgggcgctgt caagcttttc 300  
 aagcacaagc agaccggcaa ggtccgccta gtcattgcgc aagctaaaac gcttaagatc 360  
 tgcgcgaacc acctcgtggc cttcaacacg aagattcagg agcatgcggg cagcgacaag 420  
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<210> 33246  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-D9

<400> 33246

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ctaagcgcat cctcaaggag ctgaaggacc tgcagaaaga cccccccaca tcatgcagtg 180  
caggtcctgc tggtagggac atgtttcatt ggcaagcaac aattatggga ccacctgaca 240  
gtccctatgc tggtaggtgt ttcttagtga acattcattt cccgccagat tacccttca 300  
aacctccaaa gggttctttc aagacaaagg tcttccatcc taatatcaac agcaatggaa 360  
gtatatgcct tgacattctc aaagagcagt ggagccctgc ttgacaatt tctaagggtcc 420  
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<210> 33247

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E1

<400> 33247

caaggaatgg aggagggcaa tgacgagggc ccaggagagg cggccattga agaaccagtt 60  
ggttctcttg gctcaatgtc gcgtctgtcg catctattca tgtataatcc agaaatggag 120  
gatggcaatg acgaggactc aggagaggag gcggccattg aagaaccagt tggttctctt 180  
ggcgcaatgg cgcctctatt catgtatgat caagaaatgg aggacaacga ggaggatcag 240  
gcacactaga tgcagattgc accagctgca gcgaagcctt tgttttgtgt tgctggggcg 300  
gctctattta tgtaatgtgg aatggagggg ttgcgcaagc ttaaaagtat ggctggatcg 360  
gccttgtttt ttaactgggt ctctagttac tgccatctaa tagccaacat ttttcccgct 420  
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<210> 33248

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B11

<400> 33248

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gcgtgtaata aatggggaaa aaccatgtcg taataaaatc aattttatttt taatgaaaat 180  
aatacatagc cggattactt ctctaattctt acgatttctg gtctatttct tattaacga 240  
ataaggctcg aatcaaggtc agagccggag atgtgcatgg gtgcatctca tatggcacat 300  
cgcagacaaa agattgcata gttggctccg atcctatttg gcaagtgaat cagagatggc 360  
aatggcccaa tgggctcgga tcctatttgg ctagtgatta gagatggcaa tgcccaatgg 420  
gtaccgcgga tccgatactt t 441

<210> 33249

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E11

<400> 33249

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cccctctctg cactatccac ggtagccacg gccacccgag gctgatccca gggctcccgg 120  
atgaggctctc tctgcagatc ctgcgcgagga tgccgcggat ggggtacctc aaggccaaga 180  
tggctctcgcg gagctggaag gcggcgggtga ccggcgcgga gctgtaccgg ctgaggaagg 240  
agctcggcgt ggccgaagag tggctgtaca tactgacgaa ggccggcggca ggtgggcaga 300  
agctggtctg gcacgctctc gatccggtta gcaaccaatg gcagaggctg ccgctcatgc 360  
ctgggatcga gtgcaggagt ggccggcgtgt acgggctggg cttgcgggac ctggtgagcg 420  
ccggcgtagg tatcttcgac gt 442

<210> 33250

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-H11

<400> 33250

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ggtgtctcct ctctttccat tgccacagtc ggccttctcc gtggaagccg gcggggccgcc 120

gcctcctttg tcctgtcgt cgtgctcttc cgtaccgcca ttccctagca ctgtccacgg 180

gcgagatctc gcgtgtacgg tgtacctcgt ttccctcggc ggggtggatca gtgacggctt 240

ggtcgagatg gacgatgtgg ttgatgacat catctgtgga acggatgcgg cggttgccgt 300

cgaggatggg gccagtggga cgcccgaat gcctagctta tgggtgccagg gtgaggaaga 360

gcataggaag ggcaatgagg acaactcang tgagagcgag gtgattaac 409

<210> 33251

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H12

<400> 33251

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cgaccgcga ttctgtatca ctatcgacat gcgacacacg gactttaccg tgcacgatct 120

cttacaccgg atggccgatc agtgactact aggacgagac cgacgacacg gttcataaca 180

tcctctgtta caacgataac ctcatcaca gggtcgacat gagccagtgg ga 232

<210> 33252

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H2

<400> 33252

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gagaattgtg gagaagtgca ctcttaaact agtcgatgag tacaagcaca tgctgtgcc 120

ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180

tgttgctcctt attgtaactg ggacactgca tgagagagat gttaacgaac ttttgagaa 240

atgccacca ttgggcatgt ttgacagcat tgcatactt gctgttgctc aaaacatgcg 300

tgagctttat agattgggtc tagtcgatac accactggcc ccttacttct cagagtgcac 360  
 tacatctgaa gatctggatg acatgaatat tgagattatg 400

<210> 33253  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H3

<400> 33253

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 gacgacattc atatgtcat gcagtactga tattataata taacatata catatccaaa 120  
 agtcatacca tcaagctaca tgaacggcga ataataaac aaaacacttg ggaataaggt 180  
 aattgagcta tatcatatgt agagctatag ctggcttgat gaa 223

<210> 33254  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H4

<400> 33254

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 cttcgccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg acatcaaccc 180  
 ggggcagctc aagtgtgca ccaactgcaa cttctcctc tcggggctct acacctgcga 240  
 cgacgtcaaa aaggactgag acccgtctg caagaagtgc gtcgtcgccg tgcacgcctt 300  
 ctactcgggc aacaacaagt tcaggtgcac cgacatcttc ctcggcatgt gcggccccaa 360  
 gtgctagatc agagagggag aacgcgcgct 390

<210> 33255  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H6



<400> 33255

cggacgcgtg gggagcgatc ccactcccga tcagcagctg atcgctcact cttgcagctc 60  
 gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 120  
 tcgtgtagtc atcagccttc tgatcgtcac ccattggccac tgccgaggtc cagaccccga 180  
 ccgtcgtggc gaccgaggaa gcgcccgtgg tggagacccc ggctccgccc gccgtcgtgc 240  
 ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300  
 ccgagccagc tgccgccgct gagcccgagg cggcccccggt ggcggcggat gaagagacgc 360  
 caaaggagga agagacggca aaagatgcgg agccg 395

<210> 33256  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-026-Q1-K1-H8

<400> 33256

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 atcgtagctg agccccggccg agcgagagcg agggagaggc atggctgctc cgaagctcgc 120  
 gacgctggcg ctggccgtgc tcctggcggc gaccgtggtg gctcccccg cgcggtgcg 180  
 cgcggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240  
 gatgggcggg gccatgccgc cccagccgtg ctgcccgggc atccgcagcc tgctgcagca 300  
 ggccaacaac accctcgacc gccgcacat ctgcccgtgc ctcaagaacg tcgncaacgg 360  
 cgccaacggg agcggcacct aca 383

<210> 33257  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-026-Q1-K1-H9

<400> 33257

cacacgcgta cgggttctac gagaggatat ttagaggaag aacagctcga acgagaccat 60  
 gaagagcatg cccacacctg gtgctgatcc tgtgcctcca ggccgatctg gtcattggcg 120

tcttcgccgc tttggctaaa gaaaatgccc tgattgagag caaggccatc gacatcaacc 180  
 cggggcagct caagtgtctgc accaactgca acttctgctt ctcagggtc tacacctgcg 240  
 acgacgtcaa ataggactgc gaccccgctt gcaagaagtg cgtcgtcgcc gtgcacgcct 300  
 cctactcggg caacaacaag ttcagggtgca cgcacatctt gctcggcatg tgcggaccca 360  
 agtgctagat cagagaagaa gaacgcgcgc tgctgctagc tgctatagc 409

<210> 33258  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A10

<400> 33258

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 gtcgcttcgc accacgcgct gcggcctgcg gtgcgagaga tcgaggcctg agctaggggtc 120  
 tgggtggcggg gatgtcgacg ccggcgagga agcgctgat gcgggacttc aagcgcttc 180  
 agcaggaccc gcccgccggc atcagcggcg cgcctacga caacaatc atgctctgga 240  
 acgcccgtcat attcgggccg gatgacacgc cgtgggatgg aggcacgttc aagctgactc 300  
 tgcaatttat agaagattac cccaacaaac ctccaactgt tcggtttggt tcgaggatgt 360  
 ttcattccaaa catctatgcg gatggaagca tctgtttgga catcctacaa aaccagtgga 420  
 gccctatata tgatgttgcg gcaatat 447

<210> 33259  
 <211> 85  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A11

<400> 33259

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 aaaaaaaga aatatataaa caacc 85

<210> 33260  
 <211> 329

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-A12  
  
 <400> 33260  
  
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 agtgattaat aaaaaaggcc ggagtgtctt ttcattccac tctttcgtac tcttacattc 120  
 aaccttatat ttatttcata gcccaacctt attcaaattc actaccgta taaaccacaa 180  
 cttttcaaca cttaaaacct ttactttaca taacttattc accttgtaac acattcccct 240  
 ttcgcctttt tacttattac cttccaggcc cttacccttc gccatttcca acattatctc 300  
 accctttatt gtcaacatta accccctt 329

<210> 33261  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-A2  
  
 <400> 33261  
  
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 ggaacgagct gcgcttcttc gtccctcgatc aactagcttc tctgatcgct tccatatgga 120  
 gagagctgcg tcaagctgcg ctagcctcct agcacaagg aggtgctact ccgtggccgc 180  
 ggtcgtggtg aagggatgcg ggcggaaggc cgtggagaaa gtggccaagc gcatcatggg 240  
 caaggaggtg aacaccgcgg ctgcctccgg ggagaagacg ccgtgggtgc cggaccctgt 300  
 caccggctac taccgtccgg cgggtggcgc caaggaagtg gacgcggcgg agcttcgcgc 360  
 caggctgctc accaagagga tcgccaacta aatcaatcta gcagcagagc agtgccggctg 420  
 agattattt 429

<210> 33262  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-027-Q1-K1-A3  
  
 <400> 33262

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 agcagatgat ttgctgctgc aacaagatgg atgcaaccac tccgaaatac tccaaggcac 120  
 gttatgatga gattgtgaag gaagtctcat cctacctcaa gaaagttggg tacaaccctg 180  
 ataagattgc cttcgttccc atttctgggtt ttgagggcga caacatgatt gagaggtcca 240  
 ccaaccttga ctggtacaaa ggcccaaccc tgcttgaggc tcttgaccag atcaccgagc 300  
 ccaagaggcc ttcggacaag cccctgcgtc tgccctcca ggatgtgtac aagattgggtg 360  
 gtattggaac tgtaccggtt ggctcgtgtg agactgggtg catcaaacct ggtatggtag 420  
 tc 422

<210> 33263  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-027-Q1-K1-A8  
 <400> 33263

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 tggcgggtga agctcctgtg ttgtgacgta ctaatgtatc gatactactt acaccttcat 120  
 ctaaaggcac tcgccgtttc tgggacgcta agaaattcag tttttatgga gtcattgaca 180  
 attctgctgg aggagatgtg ctgggtatcg cttgtttgat ggggtctaaa acaaggtttg 240  
 agattggaca atattatgca ttaacaatat tgcattctga taatgcatta tattaagg 300  
 acccaaggca atctattgag ccacaattat gtgctcatac aaagcaagga gacacaagtt 360  
 ctgaggagaa atatggggag gagatgggtt ggcatcatgg accaaacttc gattggcagc 420  
 atga 424

<210> 33264  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-027-Q1-K1-A9  
 <400> 33264

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gtcaatataa atatgctaata gcaacaaaaa aaaaatcaaa cactccaaaa tattttcaata 120  
 ttcttgatct tcatattggt aatctagtct catactacac tcttaaattt acttacaatc 180  
 cttataagat taactttctt acaattttctt gctttgaaaa ccacatcatt attcaaaatt 240  
 acaccaatct ttactcatc aaattttccaa ccctgcttta 280

<210> 33265

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B1

<400> 33265

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 aagctgcggc tgcgggtcaa gctgcaagtgc cggcaagaag taccctgacc tggaggagac 120  
 gagcaccggc gcgcaggcca ccgtcgtact cggcgtggcc ccggagaaca aggcgcgcga 180  
 cgagttcgtt gaggccgcag cggagtcagg cgaggacggc cacggctgca gctgctgtgg 240  
 caactgcaag tgcgaccctt gcaactgctg atcacatcga tcgacgacca tggatatgat 300  
 tattatctat ctagcttcgg gtggtggttg aacaataata agcgaggccg aactggctga 360  
 catacatagg tattgtgtgg tgtg 384

<210> 33266

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B10

<400> 33266

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 aactaaatat aacttgacag ttcaccgccg catcgttcag tacaagacag cttattattc 180  
 attctacctt cctgttgcat gtgcattgct gctggctggc gagaacttgg aaaactttgt 240  
 tgatgtaaag aacattctcg ttgaaatggg aacatacttt caagttcagg atgactatct 300  
 agattgtttt ggtgatcctg aattcattgg caagatcgga actgacattg aagactacaa 360

atgttcctgg ctagttgtgc aagctcttga gcgtgctgct gagaaccaa agagcattct 420  
gtttgaaaat 430

<210> 33267  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-026-Q1-K1-H1

<400> 33267

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gcgcaggaac aataatgaca ttgtcctcat ggtctacttc cagcggtgaa gaggtcaact 120  
cagttggggc gggcatacgt ttcttccagc tctatgtcta caaggacagg aatatcgtac 180  
ggcaactcgt gaaaagggct gagatggctg gcttcaaggc cattgcactc acggtagaca 240  
ctccaatact tggccgcagg gaagctgaca ttaagaacag gttcgcctta ccttcacatc 300  
tgggtgttgaa aaacttccaa gcgctggatc ttggcacgat ggacaagaca aatgattccg 360  
gccttgcttn ctacgttgct ggtc 384

<210> 33268  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E10

<400> 33268

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gttgctgtgc ttggtagcag cgatgggtgc aagggcacca tctttttcac ccaagtggga 180  
gatggcccta ccaactgtcac cggaagtgtc tctggcctca agcctggcct ccatggggtt 240  
catgtgcatg cgcttggtga caccaccaat ggctgcatgt caactggacc aactacaat 300  
cctgcgagca aggaacatgg agcaccagaa gatgagaacc gccatgccgg tgatcttgga 360  
aatgtgacag ctggagcaga tgggtgttgca aacattaatg ttaccgacag ccagatccca 420

ctgactgggc caaactcaat ca 442

<210> 33269

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E12

<400> 33269

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gggcgatata aa 72

<210> 33270

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E5

<400> 33270

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ttgatgcatt agaaggcact gagaaagagc ccaatagaga gtttttgctt ctccaggggtg 120

tgagggttcgc tttccgggtt catcagtttg ctggggggtt tgatgcagaa agcatgaaag 180

cttttgaaga gctaagaagc aagatgacca cacaggcatc tgctccacca atatctcaag 240

gctgaagcat aaattgagca caggattcag cacacatctg gtcttacttg ctggagagtg 300

atTTTTtagtt gtgtatatta agtgtacaga ctacagaaga gagattcaaa ttccgggtgtt 360

gtgtcaagca agttgtatat gccaaagataa tacaagtcag gtttgttcat ttgtataaca 420

gttttagctc aagcataaca c 441

<210> 33271

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E7

<400> 33271

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gcgcgcgcta tgctgaggct gctaacttag caccgccta gacgtttccc ttttctctgg 120  
 tggattacgg actggatcgg accaaagatc gatccagctc ctagtactaa taatatagtt 180  
 gtacttgaga aaatgaataa ttgtaattta ttgttttttt gggacctt 228

<210> 33272  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E8

<400> 33272

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 cgaccttcac gccagtctcg gtctcttccg aaggcgtcgc gcgcgggttg ttgagaggag 180  
 aggaggaaga tgagggagtg catctccgtc cacatcgggc aggcggcat ccaagtcggc 240  
 aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct 300  
 ggagataaga ccgcgggaca tcacgatgat gccttcagca ccttcttcag ccagactggt 360  
 gctgggaagc acgttccccg tgcaatcttc cgtgatctag aaccacttg gatcgatg 418

<210> 33273  
 <211> 56  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F10

<400> 33273

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<210> 33274  
 <211> 55  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F11

<400> 33274

gaaaccaaga gaaaggagac cggcttatct taaaagtgag cttcggctta caagg 55



<210> 33275  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-F12  
  
 <400> 33275  
  
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 aatccgggga ggaatcaacc tagcggtaag cggacatggc ggcggcgaag atagcgccgt 120  
 cgatgctctc gtcggacttt gccaacctcg cttcggaggc tgagcgcacg gtccgcctag 180  
 ggcgcgactg gctacatatg gacatcatgg atgggcactt cgttcctaac ctgactattg 240  
 gggctccggg gatccagagc ttgaggaaac ataccaaagc atatttggac tgccatctta 300  
 tggtcacaaa gccttcagat tacgtagaac catttggaag ggctggcgct tctggattca 360  
 cattccatat agaagttgct agagacaact ggcaagatct catccaaagc attaaatc 418

<210> 33276  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-026-Q1-K1-F6  
  
 <400> 33276  
  
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 cggcgaggcg gccaaagctcg cccgctacaa caagaagccc accatcacct cccgggagat 180  
 ccagacctcc gtcgcctcgc ttctaccgag cgagctcgcc aagcacgccc tctcggaggg 240  
 caccaaggcc gtcaccaagt tcacctcgtc ctaagctcct ttcgagtagg tctttaagcg 300  
 ccgtggcgcc ttttgactgt atggaatgtt tgtcatctga aaaagtgatc tgagcagntg 360  
 catatataan tcttgcatac tattct 386

<210> 33277  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F7

<400> 33277

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tcggcatgtt ctccaaggcc atgtccatga tgaactcctt catcaacgac atcttcaaga 120  
agctcgccgg cgaggcggtc aagctcgccc gctacaacaa gaagcccacc atcaccttcc 180  
gggagatcca gacctccgtc cgcctcgttc tacccggcga gctcgccaag cagcccgctct 240  
cggaaggcac caaagccgtc accaagttca cctcgctcta agtccttttc gagtatgtcc 300  
ttaagcgccg tggcgccctt tgactgtatg gaatggttgg catctgaaag ttgatctgaa 360  
cagtgaatc tataattctg gcatactatt c 391

<210> 33278

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F8

<400> 33278

accactcgt ccgcccgcgc gtccgccac gcgtcctcta gggtctgaag caggtgcacc 60  
ccaacatggg cagctccttc aaggccatgt ccatcatgaa ctcttcatc aacgacatct 120  
tctagaagct cgccggctag gcggccaaac tcgcccgcta caacaagaat cccaccatca 180  
ccttctgca gatccagacc tccgttcacc tcgttctacc ctgctagctc tocaagcac 239

<210> 33279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G1

<400> 33279

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ggaagatgat tgtcaccgtg tttccgagcg ggggcgagag gtacatgacc tccgacctgt 120  
tcgccgccgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180  
cccagaaaaa aggggaaaac aaatacgct gtatctttat cttcacatgg tattggttta 240

ccatgcatgt acatttaaaa atatTTTTcc ccgaaacgga atagaacagc tgcgtgcttg 300  
 ttacacatc aaaaaaaaaa attacttgat tattttatta ataaaattt 349

<210> 33280

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G12

<400> 33280

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 cgtcccacca cggcttcttg cccttcgccc ccgctgccac gcctaccccg tcacgggggc 120  
 aactgcgctt ccgcgccgcg cgccctctgc cccgccccgc ccggagaatt tggtgccaat 180  
 ctatcaactc agctaattgt ttgggagctt cttcaacgac atctgatgaa gcagtcccag 240  
 tcccagttgt ccagatagat caagactcag accgcgatgc gaccattgtg cagctaagtt 300  
 ttggagatcg cttgggggcg ctacttgaca cgatgaaag 339

<210> 33281

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G2

<400> 33281

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 ggaggatgat tgtcacctg tttccgagcg ggggcgagag gtacatgacc tccgacctgt 120  
 tcgcccgcgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180  
 cccagaaaaa aggggaaaac aaatacgcgt gtatctttat cttcacatgg tattggttta 240  
 ccatgcatgt acatttaaaa atatTTTTcc ccgaaacgga atataacagc tgcgtgcttg 300  
 ttacacatc atataataat tgtttgtttt catatTTTTT a 341

<210> 33282

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-026-Q1-K1-G3

<400> 33282

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accgaccccg gcgcgggtgt cgggggagggc ggcgacgggc tgggtatgca cgggcgcggc 120  
cgaggtcgcg ggagctaccg ccaaacggtg tgccggcact ggcttcgcgg cctctgcatg 180  
aagggcgagg cctgcggatt cctgcaccag ttcgacaagg cccgcatgcc cgtctgccgc 240  
ttcttccgcg acttcggcga gtgccgcgag cccgactgcy cgtacaagca ctcgtagcag 300  
gacgtcaagg agtgcaacat gtacaagatg ggtttttggc ccaatgggtcc taattggcgg 360  
tataagcata tcaaagctcc tggngccacc gcttctggtg aggaagttct tcaaaagatt 420  
ttgcagatgc gctcttttaa cagata 446

<210> 33283  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G7

<400> 33283

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ggcacatcga ccgccgccgc cgtgctgtgc ccgccgtccg tggccggggt ccgcctggcg 120  
ccgtctcccg gccgggcgcy cgtgtcgttc cgcgcggcgc cggcgccggc gcggcggtcc 180  
gtggcggcgc gcgcggagct gagctcggcg ctggtgatca gcctgagcac gggcgtgtcg 240  
ctcttcttgg gccgcttcgt cttcttcaac ttccagcggg agaactggc gaagcaggtg 300  
cccgcgcaga acggcaagac gcacttcgac gccggcgacg agcgcgccaa ggagttcgcy 360  
gccctgctca agtccaacga ccccggtggc ttcaacctcy tcgacgtcct cgcttggggc 420  
tcgctcggcc acatcgtcgc ctactacat 449

<210> 33284  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G9

<400> 33284

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agaagttcga tacctcacca gcctgcgcgc acggaacaat ggcgcacgcg aaggccgtcg 120  
ccgtcctcgg cgccgtggtg atcgcgtcgc tctcctcgcg ggctgagagc cgccacattg 180  
cccgaaaaga cctgggcgtc ggccttggtg ggggcggcag cggcggcggt ggccggcagcc 240  
tcggtgtcgg cacgggtggt ggcgtcgggg ttggtacagg cggcggactt ggggttggca 300  
cgggtggcgg gctgggtgtc ggctcagga tc 332

<210> 33285

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D9

<400> 33285

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gtctagctcg ttctattatc catggctgag gagaagcacc accaccacca cctgttccac 120  
cacaagaagg acgaggagca ggccgcggcc ggcgggtacg gcgagtccgc cgagtacacg 180  
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240  
gaggagaagc agcacaagca caagcagcac ctccggcgagg ccggcgccat cgcgcgggc 300  
gccttcgcac tctacgagaa gcacgaggcg aagaaggacc cggagcacgc gcaccgtcac 360  
aagatcgagg aggaagtcgc ggcggcgggc gccgtcggct ccggcggtt cgccttccac 420  
gagcaccacg agaagaaga 439

<210> 33286

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B5

<400> 33286

agagtagtag tgatccgcaa tgctgacgga ggaggctgtt gtggctgagg tcccggtgac 60

cgagggtgcca gcgagggtcc cggcggccca ggtggccgag gcgccaagg cgaagaaggc 120  
 gcccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180  
 gcacctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaagg agaggaaggg 240  
 gtcgagctcg gtggccatca gcaagtacgt cgagggggag ccatgccgca aagctcccaa 300  
 caacttt 307

<210> 33287  
 <211> 331  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B6

<400> 33287

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 ctatgttcca gcgagggtcc cggcggccca tgtggccgag gcgccaagg cgaagaaggc 120  
 gcccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180  
 gcacctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaatg agaggtaggg 240  
 gtcgagctcg gtggccatca tcaagtacgt cgatgggaag catggctgct agctccccac 300  
 caacttccgc aagcagctca ctgtgcatct g 331

<210> 33288  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B8

<400> 33288

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 gtgtgctgcc atccggctcc gggagacgaa cgtggacaga ataacgcaga cctctatggt 120  
 accggactgt attatgccgt ccagggcat taatttacta gtgtgttcga atctatatgt 180  
 tataacagca cctacgtgta ttaagacggt atgtaaagct gttgcatcta tattaggtgt 240  
 gaaaccatca ttaacgtcat caactatgcc atatataaaa agcatggcgg ccggttta 298

<210> 33289

<211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-B9  
  
 <400> 33289  
  
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 aagaaaaatg tatccggcca agcccaccgt cgccaccgtc agcgagccgg tcaccgggat 120  
 ggcgggcgccg ccggtgaccg gcatccccat cagcagcccc ggccccgccc tcgcgggccag 180  
 ccagtgggtcc tcggggcctct gcgcctgctt cgacgactgc ggcctctgct gcatgacgtg 240  
 ctggtgccccg tgcgtgacgt tcggggcgat cgcgagggtc gtggaccgcg gcgcgacgtc 300  
 gtgcgcggcg gcgggggcca tctacacgt 330

<210> 33290  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-C1  
  
 <400> 33290  
  
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 cgggagtaca caatcatatc gatacaaaaa ctaaaaaata atgaaacctt aacggccatc 120  
 ctctttactg cgtcccactt ttc 143

<210> 33291  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-C10  
  
 <400> 33291  
  
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 tcggtttcgt ggggtgagcg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120  
 tcggcggcct cgcctggggc acggacgacc actccctcca caacgccttc agcacctacg 180  
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttcttcacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcg 348

<210> 33292  
<211> 115  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C11

<400> 33292

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gtggagtgct tctagatgcc cgggtagaaa gcgaagaatc ccttcaccat tacca 115

<210> 33293  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C12

<400> 33293

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agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggccctt ttaaagggtcc aaattttact 180  
tcccccttct tgcaaattct tatttttttt tttgggcccc caaattttaat tcactttggcc 240  
gtttttttaa aacaccgaac ttggaaaaac cctgggtttc ccaattttat tccctttgaa 300  
aaaaatcccc tttttcccat ttggcttatt accaaaaagg cccaccccaa tcgcctttcc 360  
aaaaatttgc aacccttat tggcaattgg tacccttct 399

<210> 33294  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C2

<400> 33294

aaaaaaaaa aaaaaaaaaa aaataaaaaa ttaaataata ataaaaaaaa aaaaaaaaaa 60



aggaaagact aaaataataa aaattaaaaa tcaataatat aaataaatat ataaattaat 120  
 ttaaaaaatta aaaaaattta aaaatattct tattaacaa ttaaaaaaaa ctttatcttt 180  
 tttaaattat ccaatttttt tttcttttta t 211

<210> 33295

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C8

<400> 33295

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 ggccatcatct gatactcgtc cgcactatgg ctgctctcga catcctcgca tctctcggcg 120  
 aaagctcgtc gtcttgccc tgctgcaaca actgctgtgc ttgcaacacg aagcatccgc 180  
 cggagtgccg gtgcaatgac atgtccgtca acgggtgccg tcccagtgat atgaactg 238

<210> 33296

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C9

<400> 33296

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 gagcgggtgga gcaccgagga gcacgcccgc ttcgtcgacg cgctgctcat gtccggacgc 180  
 gactggaaga agatcgagga gcatgtcggc accaagacga cgggtccagat acggagccac 240  
 gccagaaat acttctcaa ggtccagaag cttgggctgg ccgcaaggct gccgccgatg 300  
 taccgagggc gccacttcgc catgcagcag cagcagagct cgggtggccg tggttagcagc 360

<210> 33297

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D10

<400> 33297

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cagtccatac ctagtctagc tcgaatcatt atccatggct gacgagaacc accaccacca 120  
ccacctgttc caccacatca agcacgaata gcacaccctg cactgccttt actgcaagtc 180  
cagcaaatac acgcacgcca ctgtgaaccc agtcacatca cagtccagaa ccagttcaac 240  
aagtacaaga acgaggacaa gcaaccccag cacaagcatc acctctgcaa ggccatctcc 300  
atcgtcgaca gcgccttcgc actctactag aatcacgagg cgaagaatga cacctatcac 360  
gccacccgtc acaagatcaa ggatgatcgt ccctcatctg acatcctcat 410

<210> 33298

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D11

<400> 33298

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tctaggtcga ttcatatcc atgggtgaat agaattctcca ccaccacctc ttgttccacc 120  
acaacatgga c 131

<210> 33299

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D2

<400> 33299

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taaagattct taaacctcg gttgatgcaa tacacgagtt tgttacggag gttgagaccg 180  
taaccagctt gcagcatgag aacattgtag cactaagggg attcagcttc gagaactaca 240  
accttggtgtt ggcatatgat tacatgcccc gagggagctt ggacaaagct cttcatggga 300  
agaatgatgg cacagagttt cttgtctggg agaggagaat taagatagca attgacatcg 360

caagagcact caaatttctc catctcggcg gtgtgacca gtctgtgatc catggagatg 420  
ttaagtct 428

<210> 33300  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D3

<400> 33300

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gatgcattcg gtggagatcc atgtcctggg actatgaaaa gagcccttgt tgaggctata 180  
tgcggatgag tcatatgatc catataacgt actggtttct acaataatgt taccctatat 240  
taagcttgta agaggtgaaa gtggtggcat ctgcgacaca cggattgcca gggtttacag 300  
ggattaattg tatggtagat ttaatcatcg tatgtgtaat gaacttaggg tcacattaga 360  
tttgcattgg tgaaatggtt 380

<210> 33301  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D6

<400> 33301

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gagtccaaac atggggagag ctggtggcga cattgagatg ggtagaaaac cagtggcttg 180  
ggatgagcct aggatggcgg ctgaaattgg tgatttagga gcaggctctga gcaacctgtt 240  
ggaggacaag gatggcagg ttcgtaccac atctccagat ctcagccgcg acgcccttgc 300  
ggttgaggga ggcttagaag agcacggatc ctcagcgatg aaccctgggc gctcaagctg 360  
gggaagtgaa gcaagtcgat g 381

<210> 33302

<211> 216  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-D8  
  
 <400> 33302  
  
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 gagtccaatc atggtttagag ctgttggcga cattgatatg ggtagaaaac cagtggcttg 180  
 tgattagcct atgatggcgg ctgaaattgg tgattt 216

<210> 33303  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-026-Q1-K1-B2  
  
 <400> 33303  
  
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 gagtcatct gccagcaaga aaccacggt tcttgacgaa cccaagtggc gagccaagca 180  
 gccatgtgag gagcgtggtg cctggcaatg cctcgtcctc agcaatgcca tcagggcagc 240  
 cttcatagag gttgacatat tctgggcagt caatattctt cggtggcccc atgctgagca 300  
 cccctggcgt gggcgccaat aggaatgagg cagactcaag agcacgctcc gaggggaagca 360  
 gagatcctaa tgccctgtgt gagaaaacta ggact 395

<210> 33304  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-025-Q1-K1-G6  
  
 <400> 33304  
  
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 ttgaccacga agacccttaa ttccggatcc ggggggaaaa ccccggtttt tttcccgaac 120

ttaactttctt cacatccctt gaatatgctt cegttccccg gccccaccgt ctattcaagg 180  
 cttcattccg tctcaacttg gaaacaatgt gctcgctaag tctccttgcc agtttccggc 240  
 catacattgc ccaaaaacaa gcactggctc aatgctgtcc attatgttgg tcatgcagag 300  
 cccaattggg aaagaacca agataacatc 330

<210> 33305

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H1

<400> 33305

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 tgtcgctcaa cctcgccgtc aagtaacgtg acgtcatcaa ctccgtcgtg ctccaggacg 180  
 actttttgcc aagaacaccg actccgctag agtacatttt tggttctatc ttctgcttgc 240  
 cctgcatgct atttctcatc tgcttgagag atacatttaa acaagacaag agaaaattta 300  
 tagatccaag aagattgtat gcacctgggc gaatgtatca tatcgttgag aggaaatttt 360  
 gcagatgtgg a 371

<210> 33306

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H3

<400> 33306

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 agattgtgtc ttgaaacaag tttaaaatta agattactcg tggcaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa acataaaaaa aaaaaaaaaa aacaataaac aaa 163

<210> 33307

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H4

<400> 33307

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gatgtgagca agtactttgt gagcagtggg tttgctttcg tccatgcaaa ctccattgct 120  
gatattgtgg ctgttgaggc tatccctgtg gatcagatcg acccagcatt gggttcagaag 180  
gggtctcgctg aattcactgc caagcttggg ggggcctcta ctgacctgga gaaggctgag 240  
gcccagatcg gagtcgatgt tcacagtgcc ctcaatgctg cattgaccgg ttaattgggtg 300  
gcattttaaa ttgtcttgta tttttcatct acagttttag agtgagttaa agtttgcaaa 360  
ctcatgggca tgggatggac ggaatgatcc taaataaatt atactccatc taaaacatgg 420  
acatatgttt ct 432

<210> 33308

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H6

<400> 33308

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agccctcgtg ccacgccgtg atgaccggcg actggaggcc ctccgccacc gaccgcgccg 180  
cggggagggt ccccggtac ggctgacca cgaacatcat caacggtggt ctagagtgcg 240  
gcgaggaccg ctccaccgac ggcgcctaaag ccgccaagga ccgggtcggc tactacaaga 300  
ggtactgcgg tatgctcgga gtggggtacg gggacaacat ggcatgcggg agccagaagc 360  
cttacggagg atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg 420  
ttgtgttgcc tctctaccta aagaataaat caagc 455

<210> 33309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H9

<400> 33309

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 ccagtgcctg ttcaccgtgt gggccgcgtc cgtgccggtg ggcggcgggc ggcagctgaa 180  
 ccgcgccgag agctggcgga tcacggcccc cgcgggcacg acggccgcgc gcatctgggc 240  
 ggcacacggg tgccagttcg acgcgagcgg ggcggggagc tgccgcacgg gggactgcgg 300  
 cggcgtgctg cagtgcactg ggtacgggcg cgcgcccaac acgctggcgg agtacgcgct 360  
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 catgag 426

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 <223> unsure at all n locations  
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<400> 33310

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 ccgccagggt gatttggtga cagaatttgc taataatggg aataagataa catgtgatcc 180  
 agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240  
 tgtctgcag gcttattctc ctgaggaatg ggaactggct acattggtgc tcacacgacc 300  
 taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360  
 aagtctacag acaaaaattc ctaatgggcg cacaactcag tttgttttaa taactgcggg 420  
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 <213> Zea mays  
 <223> unsure at all n locations  
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<400> 33311

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agctgccttc tgaagcacia gatagatgaa gaatccaagg gtgatgaaca acaagaatta 180

ggtgtttacag tggatgatga cttggtgcat gaagacacgc ttgaaactga caatgctatc 240

gagcatacag atgatggtca acacgaccag gatcaaagaa ccctgaaagg caaacgagga 300

cacaaaacct gcaagcatcg canacaatga cgatgttgag attgtaactg agacacctac 360

tggactccaa gctcctgtgg agtcacgtat gactgattct ga 402

<210> 33312

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A11

<400> 33312

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gttctctctc ggaccacctc caaagctctt ggtgtagctt ggcaactctc ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactggcttc gatcccttcg gttaaggcca 180

tgtctgggac 190

<210> 33313

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A12

<400> 33313

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ggtggacgct ggacagcaat gcccgggagg ccaaggagcg gctggaccag aagctcagga 120

ccaagaggga ggccgccatc aagaggcacc acagcacggg gagcataaag ctgggcgtgc 180

cgcaccggag cgccggcgcg gacgagcgcg gcgagagctc cgcgccggcg atggccggcg 240

tgcagcggga ggtgtactcg aagaagggcg tgatgcggcg gctgatgcgg tggagccggc 300



cgcggtgggc cgcggcggag catgcggagt gcg 333

<210> 33314

<211> 337

<212> DNA

<213> Zea mays

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<400> 33314

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gactataggt ggctggctgt ctcgagtatt ggtaaagact gttcggagtg cgtcgttcgt 120

tctcgtccag aacagctggg ttctgggcat ccggggaaga aacggaggcg ttgacgcgtg 180

tgtgtaggtt cagaagaaac cccaataaga taattgcgtt gttatatgat gccgctcgca 240

ttattaggac gaaaaaaciaa agaagaatg agaactcgga tacatagggtg cacacacgac 300

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<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A4

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tctttctcgt ccaaaacata atgtatttgc ccattcttta cagaaacgga actggaaaca 180

cccttggtgt gcctaacata ataccctagt aagataattg cgttgctata tgatgcctat 240

tgcattatta ggacgaaccg attggtcttt ctaacatttt cgcagcctga atggataaag 300

gaac 304

<210> 33316

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A6

<400> 33316

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tgctactttg ataccgggat ctatggtaag gctaagccga ccactaaact aggactccca 180

gaagggtgctc ctgaatcaga taacaggctg ggcctgctc tgattgtcag atccgggtgca 240

taatgaccac ttgacgaatg gcactgccga tgaggcagcg acccagaatg ctgctatcgg 300

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<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A9

<400> 33317

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cgctcgttg tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cagcactgtt gcagctatga agctgtatgt accttactgt tgggtgacta 240

ttttagttat tgctaatacac aggggatac 269

<210> 33318

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B10

<400> 33318

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ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180

gtccaagatc atctcgcgc gggagacgca gaggtccgc ggcttcggct tcgtcacctt 240

ctgcacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300

tcggaacatc accggtaacg aagcccagtc ccgcggctgc cgtcgaggct gcagcggcag 360  
cgggtacagt gg 372

<210> 33319  
<211> 357  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-026-Q1-K1-B11  
  
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aaataaaaaat aaaaaaaaaa aaaggccggt cattcaaaaa gagtggagct cttttaagat 180  
aggttatcaa tggcaaaacc atttcctatc cgaagacaat taaattccat ggctaagggt 240  
tttaaaccgc ttgcatgtta aaaactatgc cttacgcaat cgaattgatt tacagaaatt 300  
aaccctttat ggcgaaatgtg actttccaca aagcccagta ttaatcacgt ttcccaa 357

<210> 33320  
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<213> Zea mays  
  
<223> Clone ID: LIB3068-026-Q1-K1-B12  
  
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acagggatct cctccatatt agtgagcagg atgtataatc ctcccagtgg gcaggacatg 120  
tctactacg atcatgtgca gaagcgccat gaggagaagg gctgcctata tgcattgctg 180  
ttcactgctg gctgctgctt ctgctgcttc gagacctgtg agtgctgcct cgaagccatc 240  
tgctgctgct gctagtcttg cttggagggc atgggcgtcc atcatcgtg agatgtggcc 300  
atgcgggaca cccaccgtcg aataaaatgc tgtacttata tgcacgcacg ttagaaatgc 360  
attagtgtct gtttgatgtg atcttgtgtg tgtgcgcgcg catcttcatt tgcac 415

<210> 33321  
<211> 441  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E4

<400> 33321

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ccgctcgccg gtatggcgat ccgcaagggg tcttcgtacg ccgctcgccg acttctcgcg 120

ctcgccctctg tcgccgccgt cgcaggggag gtcttcttcc aggagaagtt cgaagatggc 180

tgggaaagtc ggtgggtcaa gtccgagtgg aagaaggatg agaacatggc tggatgaatgg 240

aaccacactt cgggaaaatg gaatggagat gccgaggaca aaggatttca aacctccgag 300

gattacaggt tctatgccat ttcagccgaa taccctgagt tcagcaacaa ggataagacc 360

ctggtgctgc agttctctgt gaagcacgag cagaagcttg actgcggtgg tggctacgtc 420

aagttgcttg ggtggtgatg t 441

<210> 33322

<211> 335

<212> DNA

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aactatgect gctctctcg aaaccacagg aaactattgt atatgctcga accgatactg 180

acgtgcaaat cgatcgtctc acttatgtat acgggcgaaa gactaattgt accatctatt 240

agctcgttcc ctacgaatgt tccctcacta tagctgtatc ccacacaagt tctattgtct 300

aaagccaacg attataggca tcttaggcgc aatat 335

<210> 33323

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E7

<400> 33323

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 agaaagcaac gtgcgacttg aaggacatga tcgattgtgg atttgcctat ccatcatttt 180  
 ccatagtaat gaaaatgctc ttggctcgac atagtctgtt ctattcgtec cgaaccgaat 240  
 tttcgctggg ttgtttgtaa gtaaagtaaa tagtacacga tggagctcga gaggacagaa 300  
 tttctttttg atcaaaggaa agaatctagg gttagtgaag actaataaat taagccaact 360  
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 gaaagatgga aaaacttttt t 441

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 <223> Clone ID: LIB3068-025-Q1-K1-E8  
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 acaagcatga cgagagcgac aaggggctct tctcgaaat gatgcacggc gttgccggtg 180  
 gtcattggga cccccaccag ggataccctc cgcagggcta cccaccgcaa ccaggagcat 240  
 acccgctcc c 251

<210> 33325  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ttaaattctgt ttgcctaaaa tttgctgctg aaaacctttc ggctgtgatc cggaccgagg 180  
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ccgggtgtga ggaacaatgt agcagcggcg tgaaaagcca gagcgtatgg ggcagctct 300  
 ctgacggcgg cgacaccagc ggtcgcaggg tgaggccaag ggtctgagac gcgacacctgc 360  
 aagcactaac ctttgtaatc aaactgtggt agtgtaaaat ggatacagct atttgaattn 420  
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 <223> Clone ID: LIB3068-025-Q1-K1-F1  
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 ccaaatccaa gggaatggat caggcggcag ccatgagccc cagcccacgc gccgccgccg 180  
 gcatccactg ggaggcacac gggcggttc tcacggcgtg cctcgtcgtg ctcaacgtcc 240  
 tctcgtcct cctcgtctac gctacttct ggcgttctt ctcgcgtcg cgcacgcgcg 300  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-025-Q1-K1-F12  
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 tcaactttgt ctttgtgaga gcgcttcacc tcaggagct gaaggacctg tcaactatggt 240  
 ggaggagct ctacaacact gtgaagctcc cgtacgctcg ggaccgtatg gtggagatct 300  
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 tgtaccttat ttactatgt atccgtgaca acagctatgt gtctgctccc tttattttct 300  
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 <213> Zea mays  
  
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 gatggaggct gagtttcaga ggaagggttc agagagcagc cgcgactccg gtgcaaactg 300  
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 catctccccg gatgtcattc agatgc 386

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<223> Clone ID: LIB3068-025-Q1-K1-F7

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acttcctggc cgcgatcggc aaggagcagc agcaccgcg caaggagaag gcaggcggag 180  
gcgccgagga atcagcttac ttccggggcag cagccgtccc ggcgatggac tggtccttcg 240  
cgagcaagcc ctgcgccggc ccggcgctta tg 272

<210> 33331

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F8

<400> 33331

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gctccagtgc gctggagtag gctgcggtgc cggggccgca ccgactatgc acggcttcat 180  
gccgtcgcaa cttggagaca tggtgctcgc taggtcgact gccccattc cggctataca 240  
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<210> 33332

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F9

<400> 33332

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 <213> Zea mays  
  
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<210> 33335  
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cgtggtggag accccgccgc cggccgtcgt gcccaggag tctgcccccg ccgaggccga 240  
 ggccgaggcc gaggtctgtg ctctgtctga tcccaggag cttcccgcgg ccgagcagca 300  
 ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaagagcccc tcgcggccga 360  
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<210> 33336

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G12

<400> 33336

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 tttcttatcc cactgtcca agtccccttg tccacacctt tttgagtcag gtagcccacg 180  
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<210> 33337

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G2

<400> 33337

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 ccagtgcgct ggagtaggct gcggtgccgg ggccgcaccg cctctgcagg gcttcatgcc 180  
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 cccaaagaca ggcgctggct caatgctgcc cattaggtgg gtcattgcga gcccaattgg 300  
 gaaagaccgc aagataacat ctgcttcatg ggtcgtcgag tagcaaatcc acgtttggga 360  
 ctgttggctt tgttccgac ggatctagag atggcaatgg caatgacaaa tcatattcgc 420  
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<210> 33338  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-025-Q1-K1-G3  
  
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 <211> 380  
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 <223> Clone ID: LIB3068-025-Q1-K1-E3  
  
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 cacagggact ctttctgaac acaatgacct attcgatgcy ttggctcctga tgcaggagcc 180  
 tgttattcct ggctcggtac tgcgagcatg aacaatcggc cttatgcccc tgattgacca 240  
 ggggtgaaaag gattacaaga tattctcaac ctgtgctgat gatcctgaat atcgtctcta 300  
 ctacgacatc agtgagctgt cttctcatcg tcagcacgag atcaagcggc tctttgaaga 360  
 ttattagaag gatgataatt 380

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 <213> Zea mays  
  
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 tccctgcagc tctgccactc agcaaaggga cggaggagga aggaggaggg gaggcagtcg 180  
 ccgccgtgga cgccgccgga acgagctcgt ggccgtgctg caacaagtgc ggtttctgct 240  
 acctgtctga ccgccgcag tgccaatgcc tggacttctc gacggtcggg tgccaccag 300  
 agtgcaagcg gtgcatcagg tacaccgtcg acggtggcgt cgacatcccg cccgtgcacg 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-025-Q1-K1-C1  
 <400> 33341

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 acaaggaaga gctctgccgg gtgatggact gccagaagct gtccctggag gcctgcacac 180  
 acgggcgca gaacgagcgc ctcccgtcc gcgtcatcct gcaggctcct ttcttcgagc 240  
 agctccagct gcggagctcc atcgcggaat gcctcatgat ctgagagccc ctagacggcg 300  
 gggcggttg cttctcgcg cagctcgcg gcctgcctgt ctgggagag cacc 354

<210> 33342  
 <211> 394  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-025-Q1-K1-C11  
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 atagactcaa atagtgcagt gtcacagaa aaagcaaact gcacacatga aaccttatgg 180  
 gtttctttgg cagacatcgc ctttattaat ggacatcttt aaattagctt gtaccgatac 240

atgctatgtc cattagagaa acgacatcct gaggcactcg ccttcgctcc ggactgtctt 300  
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 ccgaatctcg ggacgagatt cttttaaggg ggga 394

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 <212> DNA  
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 <223> Clone ID: LIB3068-025-Q1-K1-C2  
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 ccgagagaag caaccatgag acctcaggcg tcgttactcg tcacactggc tggttatcgtc 120  
 gtcgtccctg cagctctgcc actcagcaaa gggacggagg aggaaggagg aggggaggca 180  
 gtcgccgccg tggacgccgc cggaacgagc tcgtggccgt gctgcaacaa gtgcggtttc 240  
 tgctacctgt ctgaccgcc gcagtgccaa tgctggact tctcgacggt cgggtgccac 300  
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 <400> 33344

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 ttctttggca actataagcc acgcactgat ctgccaaatg tgggtggagct gtacatgaaa 180  
 aaggagctgg aggtggagaa gttcatcacg cacagcgccc cgttcgccga gatcaacaag 240  
 gcgttcgacc tgatggccaa tggggagggc atccgctgca tcatccgcat ggagaactag 300  
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 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-025-Q1-K1-C6  
  
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 gtcataaata aagagggtgg gtgtgcttgc ggtattcatg gatggccatg gatctgagca 180  
 catgacgttg gatgctttct taaggctctc gtggatcttc tatatttgga agaagctgta 240  
 aaataatata tcgccatcta gtgttggcgt tggcttgat gtactttgta cctgctttat 300  
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<210> 33346  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-025-Q1-K1-D1  
  
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 tgaaaaggaa tcttcacaag tttcaggcag aaactgcttc tcccctacaa tcggcctctc 180  
 aacgcatacg ctacatgttg tcccatgacc ctccacagcc agaacaattc ttcgtggctc 240  
 tcgagagcaa cgcgcctatg caacctacat accatactat ggacatgaac cagtatccag 300  
 agccagcgcg tggcggctgt taccctctc ctttgattgc 340

<210> 33347  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
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<400> 33347

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ccttatgatt ttggatgtta gatgccgatc aacaatgtac caccttcccc agttgaaagg 180

gggaaagcca agatagtatt atcaatagaa acctagcttc aagaatgtcg tgactatata 240

tatgtatgat attaagacga gatttgataa ggttggcaaa aaaaaataag acacgccttg 300

taa 303

<210> 33348

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D12

<400> 33348

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ggagggaaaa acaaaaaaaaaa aaataaaaaa aaaaaaaaaa a 101

<210> 33349

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D3

<400> 33349

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ggcgtttttcc aataggggatg aaggtcccct aaagatagat aactatgact ttgaaaag 118

<210> 33350

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D4

<400> 33350

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96

<210> 33351

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D5

<400> 33351

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agagaccgat agcgaacaag taccgcgagg gaaagatgaa aaggactttg aaaagagagt 120

caaagagtgc ttgaaattgc cgggagggaa gcggatgggg gctggcgacg cgcaccggcc 180

gtatgcggaa cggctcctgc tggtecgccg atcggctcgg ggcgtggacc gttgtcgccc 240

gcgccggcgg ccaaagcccg ggggccctaa gcgcccccg cagccgtcgt cggcgcggaac 300

ggtatccgcg cgcctcttgc gcgcccctcg gggcg 335

<210> 33352

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D7

<400> 33352

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atggagggtt atcagcttga gaagccaacc gattcattct taaatcacat acgatccaca 120

aggtcacagc atatgcttga acagctcact gatcttcaga cgtggtagca aatgatgtgt 180

gaagcatata acttcctaac aagaaagctg gatgagacca gcatccaact tcatgtccaa 240

gtgtgcgttc acggcgccaa ctgattactc tactaccagc ggtactcctt gccacagcca 300

gcccataac atgttgcct ttgattattc ttt 333

<210> 33353

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D8



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tccggcgatc ctgcgcgcga ttcgactatc cccctgccct tcgctcgccc tcggcgccga 180

tgggacaggt gcatcccacc cgcacgcgct ggggcggtgg ctcgagcggc ccatgtcctg 240

ccacgacgcg cacctcacc ggcacgaagt catcgaccg atcctcgacg tcatcaagag 300

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gctcgacagc ctggaca 377

<210> 33354

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E1

<400> 33354

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agcttgatca gcttgagaag caaattgatt catccttaag tcacataaga tccacaagga 120

cacagcatat gcttgatcag ctactgatc ttccagaggag ggagcaaatg atgtgtgaag 180

caaataagtg ccttagaaga aagctggagg agaccagcaa ccaggtgcat ggccaagtgt 240

gggagcacgg tgccaactta ttactcggct acgagcggca ctctcgcca cagcaagccc 300

catcacatgt tggcaatgga ttattctttc atcccctgga agctgcagca gagccaaccc 360

tgcagatcgg gttcgctccc gagcatatga ataact 396

<210> 33355

<211> 335

<212> DNA

<213> Zea mays

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<400> 33355

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aaaaaaaaa aataaaaaaa aagcagaata ttataaaaat ttagaccact aataaataat 120

aaaaacaaaa aaaacaataa aaaaaattaa aaacataata aaattttaat cccccctttt 180  
acacaatcca acttttactt catcattcat tctaattcta acatttttaa tatttctacc 240  
taattaaata tatttatcca tccttttcca ttatcttaat ttaaaaaacc ttttcattcc 300  
ccatcctaaa ttctcttaat aacaaacctt tttat 335

<210> 33356

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E10

<400> 33356

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aaatctatct acctaaaatt ttcttcttaa aactcttttc tttattatcc tctoctaata 180  
tttcactatt tcaaatacaa ctttacattc tttctac 217

<210> 33357

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E11

<400> 33357

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ctatattgcc gagtatgagc atgaagagga acacgacggc ctgctgcttg agctcgctag 180  
gctcaacttt gtccttgtga gagcgcttca cctcatggag ctgaaggacc tgtcactatg 240  
gtggagggag ctctacaaca ctgtgaagct cccgtacgct cgggaccgta tggaggagat 300  
ctacttttgg acctgtggta tgcttcatga ggaggagtac tccctggcac ggatgttctt 360  
cgccaagacg ttcgagatgg tgtcactgat ggacgacact ttcgatgtcc atgctactct 420  
agacgagtgt cacaagctca a 441

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 <211> 65  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-G5  
  
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 ctatg 65

<210> 33359  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-G6  
  
 <400> 33359  
  
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 ctatg 65

<210> 33360  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-G8  
  
 <400> 33360  
  
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 aactgaaaat gatgggtctat ggcggaaata accgtgcgca agctttcttt aagcagcatg 240  
 gttggacaga tgggtggaaaa attgaagcaa agtatacttc aagagctgct gacttgtacc 300  
 gacagttgct tgctaaagac gttgctaaaa gctctacaga agatggaaac aatagttggc 360  
 catcttcccc agttgcagca tcccaggctc caaatcaagc tgctgcattt ccagatctca 420  
 agctgacaga ggtgtcaaaa gaaaatgtaa gtgaaaagaa agattctgag 470

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-G9  
  
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 catcgaggag gccgaggacg agctcaagct catcgctaaa atgattgaat gggatccatg 360  
 ggggtgttccc gatgactacg aatgtgaggt gattgaagac gacaccccaa ttcctaagca 420  
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<210> 33362  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-H1  
  
 <400> 33362  
  
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 ctatataccc atcctctaca tcaataactg tatcttcttc ttcattcteta ttaccatcaa 180  
 catgtactct aatcaccaca attatattat aactaatcat gatcattcca atctcactgc 240  
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 <211> 430  
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 <213> Zea mays  
  
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 <400> 33363

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 gctgaggcca ccattccac acccaagggt gcacctgaga ccactaccat ccacattgag 180  
 gttgcgga aacatgcagt agttgagaag gtggaggagg acaaggagga ggcactaaca 240  
 gtggcggcga aacaagagcc agcagccacc attgagcctc agcagattgc tagtgagggtg 300  
 accacttcg aagtggcgt cgctgttgc gagcctgaga acaaagagga ggaggaagtt 360  
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 gccaccaaca 430

<210> 33364  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-024-Q1-K1-H12  
 <400> 33364

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<210> 33365  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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agacggcaaa ggagggcggag ccggagccgg agcccgcneg cgctgaagag gtgaaggagg 420  
aagcggcagc gcc 434

<210> 33366  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-H7

<400> 33366

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aaacaaccaa aaaaatcaca aaaacagaaa aacccaaact actaaagaaa tcaaaaccca 240  
aaaaagcatg ttcccgaatt cgaaaacaag gtagaagacc cagatgcaca ggc 293

<210> 33367  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A1

<400> 33367

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gccctggtat ctgacactct cctagaatac aattcaatac aagggctgca gctctagctt 240  
gaagaaaaaa aaaaaaaaaa cagaaaaaaa taaaaaaca gataataaaa aaaaaaaaaa 300  
accaggacca atcaaaaatt cacaatgacc atcaaatctc atgatgaagc tttagatcac 360  
cctatttgga aaaaaaaagg gggggcctt 389

<210> 33368  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A10

<400> 33368

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tttgctgtta aggagcccg agtcgcggcc tctgcctca tcgctggatt cggctctctt 180  
cttcacgacg ttgtccggcc aatcctggat tcatggcaga ccgcggaaca agttcctcca 240  
cctcttctaa atgatgtggt tgcaggtgtc accggcaaga aaaagtagtg aacttgcat 300  
gttttctcat gccaatgttg cccacattt tcttccccgt gtttttctg gcgaccagat 360  
tggaaggctt ttccaagag tcacggctct gaactctaga tggatatccg ggaataatca 420  
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<210> 33369

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A11

<400> 33369

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tgtccttaat gaacccgact ggccgtcctt ctgcactcat cgctacaggc aaaaccttgc 180  
tttcacaaaa cttactggcc ttgctggata tatggcttac ccagatcac gttactccaa 240  
ctatgctcga tctatcgcc gttcgtatca cctgcgcaac ctagttgtga actgggactg 300  
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<210> 33370

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-025-Q1-K1-A12

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 caaaagccgt tttccagaga tctttttcag cgccagacgc cagccgccgt ctctcgcttg 180  
 cctgcatttc cgatcctgag gcagtcctca tctcattctc atgatctcat ccaaccggga 240  
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 gcttcaaaaa tcaaaagggg cgggggacaa caaggcangg gatgagtgca actgcaacca 360  
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 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A5

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 aaagaggaaa ggggacaagt acatgtacaa tacgacgtg cttccctccc tccggcgggc 180  
 atttctgcat catcgctgctc gagattcctg gtgcgggtgcg gtgcgggtgcg gtgctgtgcg 240  
 tcgtggcggtg cgtgcgtacg gatcgatcatg tcggcctgct gcttccgcgg ctggaggacg 300  
 aggacgagcc ggagtggccg ctgcccccca gcttctgct gatgctgtgg a 351

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A6

<400> 33372  
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 aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 180  
 agggggccat ttttaaaatt tcaaattttt aaaacccttg aaattaactt atttaatttt 240  
 tttttgggaa attaaaattt aatcaatttg cctatttttt aaaaagttat gatttgaaaa 300



accttgatt tacccaatta atttgattgg aaaaaaatac cttttt 346

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<211> 141  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-025-Q1-K1-A8  
  
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ataaatgtcg cttttatttt t 141

<210> 33374  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-025-Q1-K1-B1  
  
<400> 33374

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cttctgattc aaatacttat tacactaatg gcacctcgca atcatgttcc tttgatcatt 120  
ttatgatatg atttatgatc tgaaccacat taaacacctt tctatttaac gcagcctgat 180  
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agccagactg gtgctgggaa gcacgttccc cgtgcaatct tcgttgatct agaaccact 300  
gtgatcgatg aggtgcgcac tggcacgtac cgnacgtctt tccaccctga gcagctcatc 360  
agtggcaagg aggatgccgc taacaatttc gcccgtaggc actacaca 408

<210> 33375  
<211> 375  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-025-Q1-K1-B3  
  
<400> 33375

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 gtcgtgtagt catcagcctt ctgatcgta cccatggcca ctgccgaggt ccagaccccg 180  
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 cccgaggagg ctgccccgc cgccgaggcc aagggtggagg agccagctgc cccggcggag 300  
 accgagccag ctgccgccgc tgagcccgag ggggcccccg tggcggctga cgaagagacg 360  
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<210> 33376

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-B5

<400> 33376

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 ttgtatgata tgatttatga tctgaaccac attaaacacc tttctatcta acgcaacctg 180  
 atggccaagt gcctggagat atgaccggcg gtcatcacga tgatgccttc agcaccttct 240  
 tcagccagac tgggtgctggg aagcacgttc cccgtgcaat cttcgatgat ctataaccca 300  
 ctgtgatcga tgagggtgctc actggcacgt accggcagct cttgcaccct gagc 354

<210> 33377

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E10

<400> 33377

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 cccggccgcc agatccgccg tcgaggcgct cccgtccgcc gtcgtcgcgg ccggccagga 120  
 agtccagggg gatgagtgcg ctgtgtgcaa ggacggggtc gcggtcggcc agcgcgtcaa 180  
 gcggtgcgcg tgctcgcacc gctaccacga cggctgcac gtgccctggc tccagggtgcg 240

caactcgtgc ccgtctgcc gtttcgagct gccaccgac gacccggagt acgagtcctg 300  
gaaagccggc cggaccgacg ccgctgaac cggccaacca ggcagtggcc gcatgctctt 360  
atgggtatggt ttattgata gtgttgatg tatgggttg gtttgaatcg ggtgctttgg 420  
ttataagggt gc 432

<210> 33378

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E2

<400> 33378

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aacccttccc tactccaaat ccaccttata tcccacactc cctactaacc cttcattacc 120  
ctccaactcc taactaccaa acaatttata ctttaaata 158

<210> 33379

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E5

<400> 33379

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tacggttacg gcggcgggta cccccgacg ccgacgcggg ccaccccgac cccgaagccc 180  
gagaagcccc ccaccaaggg gccgaagccg gacaagccgc ccaaggagca caagccgccc 240  
aaggagcacg ggccaagcc ggagaagccg cccaaggagc acaagccgac gccgtccacg 300  
tacacccga gcccacaaacc cagccgctcg acgtacactg acaccccgac gccctccaag 360  
ccgacgccac ccacatacac taccgcccct acgcccaca aaccacacc aaaacccact 420  
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<210> 33380

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E6

<400> 33380

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tcgcaagttc atgaccaacc gactgctggc cgcgaaacaa tttgtgcttg aggttatcca 180

ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240

cgtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaagcaa 300

gtccactggc ttcggcctca tctacgat 328

<210> 33381

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E8

<400> 33381

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acccaatctc ccctacacca gaaaaattcc cagttctttg gtccgcgtca gagaggcggc 120

ggcgatgtct gggcgcggca agggcggcaa gggctctggc aagggcggcg cgaagcgcca 180

ccggaaggtg ctccgcgaca acatccaggg catcaccaag ccggcgatcc ggaggctggc 240

taggaggggt ggcgtgaagc gcatctcggg gctcatctac gaggagaccc gcggcgtgct 300

caagatcttt ctcgagaacg tcatccgga cgcgctcacc tacaccgagc acgcgcgcgc 360

caagaccgtg accgccatgg acgtcgtcta cgcgctcaag cgccagggaac gcaccctcta 420

cggcttcgga ggctaggcta ggcgcctggt catagtcggg gactgggttag gggacatgtc 480

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E9

<400> 33382

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tagacgaaag cacgtacggc cgcgtgacctg gtctagctac gcggcctggt tgatcttgag 180  
cagttaagcg tgtacgaaac gacagctgtg tacgtgtgta ctgtctgatg gagtgtgaga 240  
agtactgtgt gtatttggtg tggatccgat cggcctgatg tatgaaaagg atgtttacgt 300  
actatatata gatggaaaat cgtatttgcc t 331

<210> 33383  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F1

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cctagggtttt ttttgtggaa cctgatttat cgttgtatga tcatgacaaa caattggtag 120  
taaggaaatc aaaaagggga aatccgtaca tgtttgctct gtttcatctg tatcttgcac 180  
gttaaatatt taaatataaa aagcattgag tc 212

<210> 33384  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F10

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aaaacaaaga aatgaatgca ataagagaaa agacagagta aaaaaacgga caacgagtaa 180  
agcggatgac gagacttgac atgataacac aaccgttgga ttactgcact ggctacagtt 240  
gcgcaattag tggccgatgt ggcggttcta gctcgccacc gacgacgcgc agtactaatg 300  
ctggatagcc gggacgactg actgtgcgtg aaccggtgaa acaggcagtg actgcatgct 360  
ctcatgggtat ggcactatcg atagtgtagt atgtat 396

<210> 33385  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F11

<400> 33385

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gacactcgcc ttcgcccag actgccttat gattatcgct gatatggaca tgtggtacat 180  
gcttctctac ccttagaagt ctttcactcc gaatctcggg acgagattct ttttaagggg 240  
gagggctgta acaccccagg tgtttaccgt atgctcgaca acgagtatga acttaagcac 300  
gaaatatcag tggataaacac ggattttaaa ttttaatcat cctcacttat tgcgatttta 360  
atatcgcatc tgttccggtt atcgcgagtg tgacatcatt tttacttcta tttattcggg 420  
ctcttcccaa att 433

<210> 33386  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F3

<400> 33386

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aagggaatc aggttatatt tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaattaaaa aaaaaaaaaa ataaaataaa aaattaattt aaaaaaaaaa taaaaaaagg 240  
aatcgatct agattataca aaaacatgac tgggaaaaaa ctactgttac gaaatataat 300  
agtgttgcca aaaatcaaa 319

<210> 33387  
<211> 252  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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 caaacatgtg atattcctac atgcttgctt tgcataatgc gtatatctac tgttaaatat 180  
 ttatatataa ccagtattac gtcaaactat acaactacac gagcagtcct tctagaatat 240  
 ccaagcttta ca 252

<210> 33388  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F9  
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 cgcacctgc atcagcgtgg tcgtggtggc cgatggcgat cgggcccgcg ccgatgcggt 180  
 ggccgagcgc atcgcgcggc agatctggga tgagcgcgac gcgttcgtct accgcagcgc 240  
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 gctgatgctc gatcacggcg acaactgcat gtcgggcggc ccgtgcgaca cgatggacct 360  
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<210> 33389  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G12  
 <400> 33389  
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tgccccgtgt ggagcgccac gtggcgctcc ctggccttat ccggacgctc aagatgtgca 180  
gcacctactg ggccaccttc gtcaccatcc atggcctata catcatcgtc gaacatctcg 240  
tgcagagcca gcgcaagaag cgcgactttg tcaacggggc cgtcagcgcg ttcaatgccg 300  
gagcctctgt ctgcggttac agacgaaaga gttttc 336

<210> 33390  
<211> 463  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-024-Q1-K1-G2  
<400> 33390

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gcccttgttt cttgatctgc acatgggcag tcatacatat ttgcgtgggc ttgctgccgc 180  
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taccattcca gttatcgtgg tggactcacg gagagaagtt gatgagggtga aggagttaat 420  
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<210> 33391  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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aggagggcga catggagagg ccggcaccgg tgaggaagtc tcacacgtcg acggcggacc 180  
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accgccggcc gcatcagccg tcggaggcgc tcaggaaggt ggtgttcggc gggcaggtga 300  
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<210> 33392

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D8

<400> 33392

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 gatattgaaa gaagggtcag agctgtgatc gacaaatttg ctgagcgtgg tctgcgagca 180  
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 cagaagggca ctcaatcttg gtgtcaatgt caagatgatt acaggtgatc aacttgctat 360  
 tgggaaggaa actgcacgtc gtttgggaat gggactaat atgtaccctt cttctgcttt 420  
 actcggacag aataaggatg agtcaattgc ttccttgcca attgatgatt tgattga 477

<210> 33393

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D6

<400> 33393

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 gccacgcagg atttctctcc attcaacgtg gtcgcgtggc atgggaatta tgtcccttac 240  
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 ccacccctt ctctttcagt atgatctgag taagtctgtt ccattcaaca ccgtcctctt 360

ggatcatggc gacccgtcag tgaacacagt tctaactgcg ccaactgata agcctggcgt 420  
cgcggttgctt gattttgtaa tattccac 449

<210> 33394  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C5

<400> 33394

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tccgccacat gttcaagacc cagtaggcta gtagagagat agatttctgc ctccctatcg 180  
tgggtcgtcc ccaatggcct ttggctgcag accatctttg ctgcttgtct atgctgagaa 240  
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<210> 33395  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-021-Q1-K1-C5

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acggactaca tgacctacat gttcaagtac gacaccgtcc acggnactg gaagcacagc 240  
gacatcacac tcaaggactc caagaccctt cttttcggtg acaagccggt caccgtct 298

<210> 33396  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B11

<400> 33396

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cgcagaccat ctttgcctgt tgtctatgct gagaataaat gtgaacgggtg cccctggacg 180  
ctggatccat gctggttttg gacacgctgt ctttttgtgt ttaacttata tgctgccgtc 240  
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<210> 33397

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D5

<400> 33397

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gcagaccatc tttgctgctt gtctatgctg agaataaatg tgaacgggtg cccctggacgc 180  
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tgttacgaat tcgcaagttt tagttctttt gggctttgct aaagaataaa caatgaggtt 300  
tcagtttaca cacaagtttt gggatggatt acaagctcag agactatgac ctcaatgaca 360  
atgctttttc acctaaactt ggacatgcaa aaaaaaaaaag gggcgccctt tt 412

<210> 33398

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G2

<400> 33398

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gtggatgtgt cagctgtaga cctcactgtc agaatcgaga agggggcctc ctacgaggaa 180  
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gaggaggatc tgagttccac cgactttcac cggtgacagc aggtcgagct ttttcgacgc 300  
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 gtggtgctac agcaaccg 378

<210> 33399  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ggctcgtggc cagtgtcgcc ctgcagagcg aggatgtcga gctcgtcgcc gtcaacgacc 180  
 ccttcatcac cacggattac atgacctaca tgttcaagta cgacaccgtg cacggccaat 240  
 ggaagcacag cgacatcacc ctcaaggact ccaagacgct tctcttcggc gagaagccgg 300  
 tcaccgtctn tggcatcagg aaccccgagg agatcccggt gggtagggt ggtgctgagt 360  
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<210> 33400  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-H2  
 <400> 33400

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 gccagggctg ccctgcagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcata 180  
 accacggatt acatgaccta catgttcaag tacgacaccg tgcacggcca atggaagcac 240  
 agcgacatca ccctcaagga ctccaagacg cttctcttcg gcgagaagcc ggtcacctgc 300  
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389

<210> 33401

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E3

<400> 33401

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ccatgggcaa gattaagatc ggaatcaacg gcttcggaag gatcggcagg ctcgaggcca 120

gggtcgccct ccagagcgag gatgtcgagc tcgtcgccgt caacgacccc ttcataacca 180

cggactacat gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg 240

acatcacact caaggactcc aagacccttc tcttcgggta caagccggtc accgtctttg 300

gcatcaggaa cctgaggaa atcccgtggg gtgaggctgg cgctgagtat gtcgtggagt 360

ccaccggcgt cttcactgac aaggacaagg ctgctgcaca tctcaagggt ggtg 414

<210> 33402

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F4

<400> 33402

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ggtcggagtg aacggattcg gccgcacgg gcgcctggtc accagggctg cttttaattc 120

tggcaaagtg gacatcgctg ccatcaatga ccccttcatt gaccttact acatggtcta 180

catgttccag tatgattcca cccacggcaa gttcaacggc acagtcaagg catagaacgg 240

gaagctcgtc atcaatggaa aggccatcac catcttccag gagcgagatc ctgccaacat 300

taagtggggg gatgctgggt ctgagtatgt ggtggagtcc actgggggct tctactaccat 360

ggagaaaggc tgggctcact tgaaggggtg cgccaagagg gtcacatct ctgcaccttc 420

tgccgatgcc 430

<210> 33403

<211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-029-Q1-K1-F6  
  
 <400> 33403  
  
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 gcccgccgct cctccagaag cctcggcaac gtcagcaacg gcggaaggat ccggtgcatg 180  
 caggtgtggc cggcctacgg caacaagaag ttcgagacgc tgtcgtacct 230

<210> 33404  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-046-Q1-K1-B2  
  
 <400> 33404  
  
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 catggcctgc ctgccaaca tggtcgtcat ggccccgtcc gacgaggccg agctctgcca 120  
 catggtcgcc accgccgagg caatcgacga ccgccgtcc tgcttccgct acccgagagg 180  
 caacggcggtt ggcgtcccgt tgccgcccac ctacaaaggc actcccctcg aggtcggcaa 240  
 aggcaggatc ctgctggagg gcgacaccgg gngctgctg gngtacgggt cgggagtgca 300  
 gnactggctg accgtcgcgt acctggtgca gcg 333

<210> 33405  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-056-Q1-K1-C6  
  
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agtcacccgc cagcctcccc gtcgcccgcc gtcctccag aagcctcggc aacgtcagca 180  
acggcggaag gatccggtgc atgcaagtgt ggccggccta cggcaacaag aagttcgaga 240  
cgctgtcgta cctgccgccg ctgtcgacgg acgacctgct taagcagggt gactacctgc 300  
tgcgcaacgg ctggataccc tgccctcgagt tcagcaagggt cggcttcgtg taccgcgaga 360  
actccacctt cccgtgctac ta 382

<210> 33406

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D2

<400> 33406

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tccgagtaac tcttcagctc ggggttccgc ctgaagaagc aggagctgca gtagctgcgg 180  
aatcttctac tggtagatgg acaactgttt ggactgatgg acttaccagt cttgatcggt 240  
acaaaggacg atgctatcac atcgagcccc ttcttgggga cccagatcaa tatatctggt 300  
atgtagctta tccattagac ctatttgaag agggttctgt tactaacatg gttacttcca 360

<210> 33407

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A10

<400> 33407

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caatgcatac agtcccgtgc aagatgttgc ggattcgtgc agaactggtg ctgccactaa 120  
tgtcattttt ggtcttgctc ttggatacaa gtcggttatc atcccgatit tcgctattgc 180  
tgtagcatc tatgtcagtt tctccattgc tgcgatgtac ggcattgcag ttgccgctct 240  
tgctattgat gcttatgggt ccatcagtga cgatgctgat gctattgctg agatggctga 300  
catgagccac agaatcgctg agagaactga tgctatcgac gctactggca acagaactgc 360

tgctatt

367

<210> 33408

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E5

<400> 33408

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cctataactca tcagttgtat accctcacaa ttatggtttc gttccaagga ctctttgtga 120

agacaatgac ccattggatg tgttggtcct gatgcaggag cctgttattc ctggttcggt 180

cctgcgagca agagcaatcg gccttatgcc catgattgac cagggtgaaa aggatgacaa 240

gataatagca gtctgtgctg atgatcctga atatcgtcac tacaacgaca tcagtgcgct 300

gtcttctcat cgcctgcaag agatcaagcg gttctttgaa gattattaga agaatgaaga 360

tt 362

<210> 33409

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C11

<400> 33409

cccacgcgtc cgcgcccctc ctctctcct tcatccgtac ccaatctaata ctacacccgg 60

gcgagatggg ccgcaagtcc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120

agggtgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180

aggtcgttgt cagtcctcct tatgtgttcc tcccgggtgt caagagccag ctgcgccaag 240

agttccaagt tgctgctcag aactgctggg tgaagaaggg aggtgcattc actggtgaaa 300

ttagtgctga aatgctcgtc aaccttggcg tccctgtgt cattcttgga cactctgaaa 360

ggagagctct gctgggagaa tcaaatg 387

<210> 33410

<211> 461

<212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-A2

<400> 33410

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atgaggcagg atctgaggac aactttgtgc aaggggagaa tgggacttct gtagcaaattg 120

cttcgattga tcctgctcaa tctttacatg gcagcaatct ttcaccacca acagtactac 180

agtttgggaa gacaaggaag ctatctgaga gatctgaccc tagaaatcgg caactcctgc 240

aaaaacgaca gttcttccat tctcacaagg cgcaacccat gcaactggag caagtgttct 300

cggaccgtga tagtgaagat gaagttgatg atgatattgc tgacttcgag gatagaagaa 360

tgcttgatga ttntgttgat gttacgaaag atgaaaaact tattatgcat atgtggaatt 420

catttgttcg aaaacaaaga gtgtagctg atggtcatat a 461

<210> 33411

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-A8

<400> 33411

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cctcgccatc caatgggggt ttgccttatt gcgtgcacgc tagctagctg cttggaaata 120

aaaataatta aaataaaagg tctcgtctgt actattgtat tgtaccatgg atcatatcgt 180

acatgttggtg tc 192

<210> 33412

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B10

<400> 33412

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tctggcgtga gtccccatc gggatcgtct ccttgctgat gatgagcggg ggcgatggta 120

ctcccgcccc cagtatctaa tagcacgatg tcgttttgta gaacgccgtt gcatttgatt 180  
 gtttgtgccataataacttgc aggttttgcgacattgtcg ggaggaggta tggctcagcg 240  
 aagctgccat tcaatcggaa gaagagctgg gccgggagca tctcgatgtt catttctggt 300  
 ttctgtgtgt ccgcgatgat gatgctctac ttctcaagcc tgggttacat tgatgttatc 360  
 tgggaagagg cacttggttaa gctggcgctt gttgcactag cagcaacagt agtggagtgc 420  
 gtccctgtga c 431

<210> 33413  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-024-Q1-K1-B3  
 <400> 33413

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 gccgtggaga tccaggccga cgccgggtac gggttacggc gcgggtacac cccgacgccg 180  
 acgccggcca ccccgacccc gaagcccgag aagcccccca ccaaggggcc gaagccggac 240  
 aagccagcca aggagcaca gccgcccaag gagcacgggc ccaagccgga gaagccgtcc 300  
 aaggagcaca agccgacgcc gaccacgtac actccgagcc ccatactcac gccggcgacg 360  
 tacactccca cccggaccct ctcatgcctg cccaaccac atacactt 408

<210> 33414  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-024-Q1-K1-B5  
 <400> 33414

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 aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 ttacatacaa aaaaataaaa aataatataa atataatata atgtaaacta aattgaatga 180  
 actggacaac gttttacaat ggcaaaaaat gtaaaaaccc tgaacgctaa taaacttaaa 240

tgacattgca ccatatacca ctttctacat ctgacataat atccaaaag 289

<210> 33415

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-B6

<400> 33415

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accccgacat ccccgaccgc atggcgccca aggcggagaa gaagccagcg gagaagaagc 120

cggcgggcga ggagaaggcg gagaagacga ccgcagggaa gaagcccaag gccgagaagc 180

ggctgcccgc gtccaagtcc tccggcaagg agggcgggca gaagaagggg aagaagaagg 240

ccaagaagag cgtggagacc tacaagatct acatcttcaa ggtgctgaag caggtgcacc 300

ccgacatcgg catatcctcc aaggccatgt ccatcatgaa ctccttcac c aacgacatct 360

ttgagaagct ggccggcgag gccgncaagc tggcgcggtg caacaagaag cccaccatca 420

cgtcccgcga gatccagacc tncgtgcgcc tagtcctncc cggagagctc gccaaagcacg 480

ccgt 484

<210> 33416

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B7

<400> 33416

cccacgcgtc cgcggacgcg tgggatcctt gaatttgaca ccatacccat attctgtata 60

gaactgagtg tattgtacct gtatgataga ggacaacttt tctccttggt taactaatca 120

aataggcata aacatttttc cttggtttcg tatgcctttt ttttctgggt ccttggett c 180

tgggccctaa atgaaatttt taccaaggta ctaaagtaat ggtc 224

<210> 33417

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-B8

<400> 33417

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aggagggcat agccatgggtg cgggcgagcc ttctcgccgt gcgcgaggcg ctagcgggtcg 120  
gcgctgctgc ggccacgcgg cacggcgccct ccgccgcccc gctcgggtccc gtggcgatct 180  
tgctcctcgc ggtggccgcg acggcgggccg tggcgggccat cgcggcgttc ggggtgcgcgc 240  
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gctaccgcgc gcctcccgcg ggcgcgtacg gctaccctgc gcaggccgcg tacggctacc 360  
cggcgcaggg cgctggaggg agggccggcc gtagcgggct cgggtcggga gccgcggggc 420  
tcgccgtcgg cgcggtcggc gggctggccg ncggcgccat catcggtc 469

<210> 33418

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C10

<400> 33418

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gcggaagagg tgcgcgcggg ggaaccgagc cgactgatgg agccgacggc ggcgcccgc 120  
gcctgcgaga tcgcgcgcct gccggatgac ctctgtcgg cggcgctcgg ccggacgggg 180  
ccgctggacg cctgccgcgc cgccgcggtc tcgccggcct ttgcgcgccg ggccgacgcc 240  
gacgcggtct ggtccagctt cctgccgccc gaactgcccc cgctcgccga tggggagctc 300  
cccgccgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360  
cccgtcctcc tcgccgacgg cctcacgagc atgtggctgg acagggtcac cgctcgccaag 420  
tgctacatgc tgt 433

<210> 33419

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C11

<400> 33419

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120  
aaaaaaaaata aaagatcagg ggggtgcttt tttagagctcc taacttaaga gctcggtaat 180  
acggacgcca aaggacaatt aacggggccgc caaattaaaaa tttggggccc gggaaaacaa 240  
aggctccgac ggggtaaacc cctggttgca acatccttat ctgccagggg tcaa 294

<210> 33420

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C3

<400> 33420

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gcaggctcag gaccgacaga acagaccatc agagagccct gttacaccat ctaggcagct 120  
cttggtcct aatgtacatt tctatgctgg agagtgggat gaactcccaa caattctctc 180  
agttgtgcag ccacctgcag caccaacaaa cctcagcttc tctgaggatg attttatgga 240  
tggtgcagt agccatgatg gaagcagtgt agttggtcat gactactgcc ccaggagatc 300  
taggaagctt tctggtagcc gtgcatggga gagagctagt gagaccgacc aggcagatag 360  
tggtatgat gtgatcttga tttctgatgt cccctacgca gctaactctc tgaagaagct 420  
ctatgcgctt atttcaaagt gcctacgtcc tccttatgga gtctgtacg tcgc 474

<210> 33421

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C4

<400> 33421

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gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120

accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct 180  
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240  
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300  
gcatgaacgg caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg 360  
gcggccgtgg aggcggcggc ggcggcgggt acggtggt 398

<210> 33422

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C7

<400> 33422

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ctgagctagg gtctggtggc ggagatgtcg acgccggcga ggaagcgcct gatgcgggac 120  
ttcaagcgcc ttcagcagga cccgcccgcc ggcatcagcg gcgcgccgta cgacaacaat 180  
atcatgtctt ggaacgccgt catattcggg ccgatgaca cgccgtggga tggaggcacg 240  
ttcaagctga ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt 300  
gtttcgagga tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggacatccta 360  
caaaaccagt ggagccctat atatgatgtt gcggcaatat tgacctctat tcagtccctg 420  
ctgtgtgacc caaaccctaa ttctcctgct aactctgaag cagccagaat gttcagcgag 480  
aacaagc 487

<210> 33423

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D11

<400> 33423

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cggatatggt taactgatgt gccgacacat ccaaactctc cacctaacaa tgtcttccga 120  
cccgatctgc ccagctaaga ctgtccttcg acccaaaagg acgggcgatg ccccgctttc 180

gacccacgga ataagtcaaa taacgtttaa agtactggta tttcacttgc accccgatgc 240  
taccacttat cctacacctg tcaagtcatt tcacaaagtc tgactatagt caagcttaac 300  
agggtcttct tt 312

<210> 33424

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D5

<400> 33424

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180  
cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240  
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300  
atgggcgact gctcggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360  
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420  
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ag 482

<210> 33425

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D6

<400> 33425

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180  
cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240  
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360  
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420  
caggctcgcc gggcaagcgc tgaacctgaa cctgggtggc gacccgacc tgggtggcgag 480

<210> 33426  
<211> 355  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-024-Q1-K1-A12  
  
<400> 33426

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tgaccactca cgccaccggg ggatgggtac ctgtgcatgt tcctcgtggg cgcctaccaa 120  
gaagttcctc ggtttgtctg cacaacctct tcggcggggc gagcgttggt cgcgtgtccc 180  
agtgcgactg gcccactgt ttgcgcgtga cgcgcgtccc cgcaggcccg tactgtgccg 240  
acatgcttct cgcgatgcat cactagcccc aggtgatgta cgaagtgctg aagcagatga 300  
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<210> 33427  
<211> 349  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-023-Q1-K1-G4  
  
<400> 33427

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gtcgcgtcgc atcttactcc gttcgatgtg cgggtgctctt tcggtcgatg gaccctacct 180  
tcggctgaac cgatttcagg ggtggcgggc cgttaagcat aaaagataac tcttttcgag 240  
gcccctcgtc ggcgttttcg gacttcttaa cgtcgccgta tgccgtcacg tacttgctcg 300  
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<210> 33428  
<211> 428



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-G5  
  
 <400> 33428  
  
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 gcgtgccgga gccctgtca gtgttcgtcg actcctacgg caccgggacc atccccgaca 120  
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 cgggggcccc tgcattgagc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180  
 cgcgaccac ggctgttact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240  
 gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgccctaccg 300  
 cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gctcgccggc 360  
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tccttttagct aacgattctg tttgttaatt tcttcgggtt tttttggagt acagtgatca 180  
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<210> 33431

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G9

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gagggtgcgc gtggagcttg gcatccccac ggcgatctac cgccatggcg gggctgcctc 180  
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgg tccttcgccg 240  
cctgctgcgg ctctcgcgg cgctcggcgt gttcacgcgc gacaagcaga gcacggagga 300  
ggagcgggtac cgcacacgcc ccgtgtccta cctcctggtg gacggcatcc ctcacgagga 360  
ccacatgaac cacaccgctc tgggtgctcac ctgcacctcg acgcgctaca tcgaggcgg 420  
gatagggctg gcgga 435

<210> 33432

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H1

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ttctggggct ggaaacaaaa atgccttcaa ggcacttatt gctgcagaat acagtggggt 180  
 caaggttgag ttgaccaagg attttgagat ggggtgtctcc aacaagaccc ctgagtttct 240  
 aaagatgaac ccccttggga aggttcctgt tctggagact cctgatggcc ctgtttttga 300  
 gagtaatgct attgcgcgct atgttgctcg cttgaaggat gacaaccctc ttttcggggtc 360  
 ttcccgtatt gaacaagccc acgttgagca gtggatggac tttgctgcaa cagaagttga 420  
 tcctagtgtt ggatg 435

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 <211> 55  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H10

<400> 33433

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<210> 33434  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H11

<400> 33434

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 caagcgccga cacactcaac cgtctccgtg gagaagtcag cgagatacac accgtcatgg 180  
 tcgacaacat agagaaaatt cttgacagag gcgatcgcat ctgctcctt gtcgacaaga 240  
 catccaccat gcaagacagc gcctttcact tccgcaagca atccaagagg ctccgtagag 300  
 ctctttggat gaagaatgcc aagcttctag ttgtgttgac agttgtcata gtagtgctgc 360  
 tctacttgat catttctgct ttctgtggag gcctttcctt gtcacatgc agatcatgag 420  
 ttacacac 428

<210> 33435  
 <211> 436

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-H12  
  
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 gtcatggctg acaacataga gaaaattctt gacagacgcg atcgcatctc gtccttgac 240  
 gacaagacat ccaccatgca agacagcgcc ttctacttcc gcaagcaatc caagaggctc 300  
 cgtagagctc tttggatgaa gaatgccaaag cttctagttg tgttgacagt tgtcatagta 360  
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 tcatgagtaa cacacc 436

<210> 33436  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-H2  
  
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 ccccgaggag acccatcctc tgcatacaata actgtggctt cttcggcagc gcggcgacca 180  
 tgaacatgtg ctctaagtgc cacaaggaga tgataacgaa gcaagatcag gccaagctgg 240  
 ctgcctcctc tatcgacagc atcgatgaac gcagcgacgc cgtcatggaa ccggttggtg 300  
 ctggcaacaa cacggtagta gcttggtgcc aagtcgagtt gcaaacaatg aacgtgcagc 360  
 agccccgc 367

<210> 33437  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-H4

<400> 33437

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cgagccatcc cttctatgga ccatactat gtgtgaataa ctgtcccttc ttcagcagcg 180  
cggccacat caacatgtgc tctaagtgcc acaaggagat gattacgaac cacgatcagg 240  
ccaagctggc tgcctcctct atcgacagca t 271

<210> 33438

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H6

<400> 33438

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cagagggccg ctgcatccga gttaaggaag ccatggagca caaggaggct gggtgccagg 120  
cccccgaggg acccatccta tgcataaata actgtggctt cttcggcagc gcggcgacca 180  
tgaacatgtg ctctaagtgc cacaaggaga tgatt 215

<210> 33439

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H7

<400> 33439

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aacaggcttg tgtcccaggt catctcatcc ctgactgcct cctgagggtt cgatgggtgct 180  
cttaacgtgg atgtgaatga gttccagacc aacttggtgc cctaccgag gatccacttc 240  
atgttttctt cctatgctcc agtcatctct gctgagaagg cctaccacga gcagctgtct 300  
gtggccgaga tcaccaacag cgccttcgag ccatactcca tgatggccaa gtgcgatccc 360  
cgccatggta agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat 420

gtgaatgctg ctgt

434

<210> 33440

<211> 193

<212> DNA

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<400> 33440

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tggacaaact gcattgcagc tcggcacggc atagtgtata cgatccgacc gatcgatccc 120

ttttattgac aaacaaaacc tgtgcacaag ggaccttcat tgaatgccct gcgcaccatc 180

aacatgtcta tct 193

<210> 33441

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H9

<400> 33441

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gggccgtgaa cgatgagttc tgcagagtgc tccatcagca aatggagttc ttctccagca 120

acccaagcgc cgacacactc aaccgtctcc gtggagaact cagcgagata cacaccgtca 180

tggtcgacaa catatagaaa attcttgaca caggctatcg catctcgctc cttgtcgaca 240

agacattcac catgcaagac agcgcctttc acttccgcaa gcaatccaag aggctccgta 300

gagctctttg gatgaagaat gccaaagcttc tagttgtgtt gacagttgtc ataatagtgc 360

tgctctactt gatcatttct gctttctgag gaggcctttt cttgtcatca tgcatatcat 420

gagtcacaca 430

<210> 33442

<211> 529

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-A10

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t g t a c t g a g c t g g g g a g g g c c g t c a c g t g g t c g c a g c c g c t t g g c t g a c g c c t t a g a 120  
t g c t t c t g t g a n n a g g g t t c g t a g c t t g g t a g c a a c g c c c t g t c a g g g a c c c t g a t a a g 180  
a a t g g t g a a t c t t a c t g c c t g a t g c g g g t g c g a a g c c c a g a g g t a a a t c t c t g a g t g g a g 240  
g c t t c g a a g n c g a t a c c t g a c a g t g c a t a a t c g t a t c g t c a t g a c t t t g g g t a t a t g g g g 300  
c c g a t a a g a c t t a a t g c g a a c c a t t c t t a g t a g n n c t g g t t c c a c t c a c g a a g t c t t c c 360  
t c t c a g g g a a t a g c t g g a g t c c c a c a a c g a g t g t c t a g t c g g g t a a a g g c c a a t g g a t t a 420  
g t a g t g c a t c g g g g g c c g c a a c g t c c c t t c g a c g t a t t c t c a a a c c t t t a a a t a g t g t a g 480  
g a c g g g c g c g g c t a g c t t c g g t g a a g c c g t g e n c a c g g a a t c g t g g a g c 529

<210> 33443

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-A11

<400> 33443

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c t t t g t a t a t c t c c a a a t t g t t g c a t g a g g c t g g a c t a c c t g a g g g t g t t g t g a a t g t c g 120  
t t t c t g g t t t t g g c c c t a c t g c t g g t g c t g c t c t t g c t a g t c a c a t g g a t g t t g a t a a g a 180  
t c g c a t t t a c t g g a t c t a c c g a t a c t g g a a a a a t t a t t c t c g a g t t g g c t g c a a a g a g c a 240  
a c c t t a a g a c a g t g a c a c t g g a g t t a g g a g g c a a g t c c c c t t t c a t c a t a a t g g a c g a t g 300  
c t g a t g t t g a c c a t g c t g t t g a g c t t g c g c a c t t t g c c c t g t t c t t t a a c c a g g g a c a a t 360  
g c t g c t g c g c t g g a t c t c g c a c g t t t g t a c a t g a g c g t g t t t a t g a t g a g t t t g t g g a 418

<210> 33444

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G3

<400> 33444

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aaaaaaaaaa agaaaaaaga aaaaaaaaaa aagggggtag ctttaatatata attcagagtt 180
tacttaatttt aaaatggaaa tggaataaaa ttttttttaa ggacaaaaaa tcaaaaaaat 240
tgaggagggttt ataaaaataa gtcgtttggg aaaaaaacgg gttgtaacga attcagtttc 300
ttaaaaaaaa agccgcttaa tgaacagttg aaaaaatcga acaaggaagg attaaaaacc 360
gtttgaagggt tattttggac attaaaagg 389

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 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D12

<400> 33445

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acaaaccttg agcttgacaa cactgatgag tttcgactca cccaaattga attttcacag 180
gatagcttta tgacatgggc agctgaaaag attactgacg actgacgctg ctctagtgc 240
ctctcggcac cattttggta catgaagaaa caactgatct gtttttttgt gggacggcag 300
tgaagtctgc aacaacagtg gtctcgcttt tgctttgagt agctctggtg cacataaaat 360
aatttatatg aaatatgaaa ggctgaggaa tcatgcggta ccaactgtgg agtactgttc 420
agtgtgagat tggccttgg 439

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 <213> Zea mays

<223> unsure at all n locations  
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<400> 33446

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 tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcaggtg agctccgcca 180  
 tcgcgccctg cctctcctac gcccgcgga cgggggtccg cccctccgcg tcctgctgta 240  
 gggcgctcag gaacctcaag agcgccgnca gcaccgncgn cgacaggcgc gccgnctgca 300  
 actgcctcaa gaacgccggc aggggctca gc 332

<210> 33447

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D7

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 aaaaaaaaaa aaaaaaaaaa atgaaaatat aaatacacat aattagataa agaaaaataa 180  
 aaagaaaaaa ttgaaagtta cagaaataaa aaaaaattaa aataaactaa agaaaaaaa 240  
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<210> 33448

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D8

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 caacttcgcc accgccgagc acaagagccc cgagcacctc gtccgcaacc cgtttgggtca 180  
 ggttccagct ctgcaggatg gtgacttgta cctcttcgaa tcacgagcaa tctgcaagta 240  
 cgctgctcgc aaaaacaagc cagagctggt gaggaagga aacctcgagg aggcagcaat 300  
 ggtggatggt tggatcgagg tggaaagctaa ccagtacacc gctgcactga atcccatcct 360  
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gaacc

425

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<213> Zea mays  
  
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gccaaactta caaccaaaca atttggttacg gttttataac gtcctgaatt ccaaaactct 180  
tatacctaacc aacttaatat gcttcgatta caaccactt aataaatcta acatcattaa 240  
aaataattct atttcaatta cacctttaca acacacactt atcctacaca tcttaattca 300  
tttcacattg tatcactaca t 321

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<211> 351  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-023-Q1-K1-E1  
  
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gggattgaat tccgcaatgc ttgacaaata gtgaagttca tactgttata catgagcact 180  
gagcagtata tgccaagact tttttattct gtcgagaagt gataactatt ccttagatct 240  
gctaggtgtg tttgggtgtc aaagggtttt gtgggtgtta gtgttgact tggctagact 300  
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<211> 164  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-023-Q1-K1-E4

<400> 33451

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gtatgatatc tatatgtgct gcttatgagg aaactacaaa gccca 164

<210> 33452

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E5

<400> 33452

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ttgtctttgg atctttgaag tcaaacaag tcagttggtt gaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaataa 240  
aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaatgtaat cactttttaa gtttctaat 300  
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<210> 33453

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E6

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gtcctcaaag ctatttgtgc tggttttgag gaaactacag aaccaaagt ttgcctgagt 180  
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gctaagttaa cagcctgtaa ggacaccttc cgtggtagag tgtgtgaatg cccactttc 300  
aatggcgtag aatttaaagg cgatggctac agcaattgtg aacctgctgg accaggaaaa 360  
tgcttgatta accatggaag atgttggcat gaaactcgca acggaaaaac attctc 416

<210> 33454  
 <211> 144  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-E8  
  
 <400> 33454  
  
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 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-E9  
  
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 cagagactga tgatggagat ccgacaatgg aaagtaagta ttttgacagc aggatcgatt 180  
 tcttgaagca ctgccaaagac aatcaattcc agtttgatac cattcggcgg gcaaagcact 240  
 ctacaatgat gattctgtat tacctacaca attcaacctg ctctgcttgc catcggtgccg 300  
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 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-F11  
  
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ctcatataga catcttctac attcttctct acccttaaaa atctttcact cccaatcttc 180  
ttactagatt cttttaatca actaagtctt taacacccca tgtacttacc cctttctctc 240  
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<210> 33457

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F2

<400> 33457

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gctattggta ccattttaaa ctaccaattt aaacgaccac taatctttta attattatca 120  
ccttacttcc tcttatatat atatatcttg ctctttataa aacttaaatt tctttcaatt 180

<210> 33458

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F4

<400> 33458

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tcctgtcgta caaccagctg acgggcccga tcccgcgcga cgacgcgcgc gacgagatca 180  
acaccgtgga cctctccac aacaagctga cgggcgaccc ctcccacctg ttcgccgctg 240  
gccggcccat cggcaagggtg gacctgtcgt ggaactacct cgacttcgac ctgagccagc 300  
tggtgttccc gccggagatg acgtacctgg acctgtccca caacctcatt ccgggcaccg 360  
tgccgctgtc gc 372

<210> 33459

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F8

<400> 33459

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gatgagaact tcaagatcaa gcacactggg ccaggccttc tgtccatggc caatgccggg 180  
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aagcatgtgg tgtttgga ggtgtgtgtc ggaatggatg ttgtgtacaa ggtcgaagct 300  
gaaggccggc agagtggaga gccgaagagc aaggttgtga tagcagatag cggcgagctg 360  
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<210> 33460

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G1

<400> 33460

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<210> 33461

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G10

<400> 33461

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gctcttacct aggattctga cttcgacgag ctcaatcatc atctgatata ccgtatcttc 120  
actcaaatgc ctttacaat aatctcgatc acacaaatct gttaataaac ggcttctcta 180  
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<210> 33462

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G11

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tccatcaacc caagctccta cacactcaac catattcttc gataactcaa ccatatacac 180  
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<210> 33463

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G12

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cccgtgtgga gcgccacgtc gcgctccctg gccttatccg gacgctcaag atgtgcggca 180  
cctacggggc caccttcgcc accatcgggg gcctctacat cggcgtcaag cagctcgtgc 240  
agagccagcg caggaagcgc gacttcgtca acggggccgt cggcgcgttc gttgccggag 300  
cctctgtctg cggttacaga ggaaagagta ttcagtca 338

<210> 33464

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D10

<400> 33464

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gcaggaccgg ctccaggggt caggtgaccc aggtcagagt gaagttcttg gatgaccaga 180  
accgtctcat catgaggaac gtcaagggcc ctgttcgtga gggtgacatc ctcaccctgc 240  
tcgagtctga gagggaggcc aggaggtgc gctgaagccc tgggtggcctt ggatgtaatt 300

ctgttaattt tgttctatgt ttgtcgaact tgccgtgtga ccttcacaac atctgctttg 360  
agatttactc agcctggatt gcagttttat tttatgttcc tgctggaaag tgacttgccg 420  
agacatagtt atcatt 436

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<211> 301  
<212> DNA  
<213> Zea mays  
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<400> 33465

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gatgagaact tcaagatcaa gcacactgct ccaggcctcc tgtccatgta caatgccgtg 180  
agagatacac acggatcgca gtcogtcatg accacagtgt caccctttcc gatggacccg 240  
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t 301

<210> 33466  
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<212> DNA  
<213> Zea mays  
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<400> 33466

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cccatgcctg ctcccacggc ttcagcgagg tatgcggcct cttggaaggt tttctgaaga 180  
tcaagagcat cttttattct gcggttcaca aacgtccaag tatcacggaa ctctggagaa 240  
ttgtctgtca acatatacac ctctgagggt gagtagatac caccaagcac tgtacgtttc 300  
acataccaat caatatctga ccagaaatct ccagcagcat gccatatctc atccaccagg 360  
atagctcgct gcttcaagct tggtgagacg tttgctgggt gagactgaat actcagtgcc 420  
tagttctaga tcgcgagc 438



<210> 33467  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-B2  
  
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 gcaccatcaa ttgttgaaaa ggaccccact gatcagggtg agattgacaa cttcatggac 180  
 catcagcttg atggaacctc caatgattag ggctggtgca aacagaatct tgtagcatat 240  
 gccatccttg cggtttcact tgctgtgtgc aaagcttgag ctatggtgaa gaatattcct 300  
 ctttaccagc acatctcata tcttgctggg aacaaaactc tgggtgcttcc tgtacctgcc 360  
 tttaatgtca ttaatg 376

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 <213> Zea mays  
  
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 aaggctgtca gcaatgtaaa taacattatt ggaccagcaa ttgttggaag ggaccccact 180  
 gagcagggtg agattgacaa cttcatgggc caacagcttg atggaacctc caatgagtgg 240  
 ggctggtgca aacagaagct tggagcaaat gccatccttg cggtttcact tgctgtgtgc 300  
 aaagctggag ctatggtgaa gaagattcct ctttaccagc acatcgcaaa tcttgctggg 360  
 aacaaaactc tgggtgctccc tgtacctgcc tttaatgtga ttaatggagg gtcacatgct 420  
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<210> 33469  
 <211> 430

<212> DNA  
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 ggaggatccc atgttgatcc atttgacatc ttctcatcat tttttggacc ctcttttggg 180  
 ggaggtggtg gaagcagcag gggaagaagg caaaggaggg gagaagatgt agtccaccca 240  
 cttaaagttt ctctggaaga tctttacaat ggcacctcaa agaagctctc tctttcgcgc 300  
 aatgtcatct gctccaagtg caagggcaag ggctcgaagt ctggtgcctc aatgaggtgc 360  
 cctggttgcc agggctcagg catgaaagtc actattcgtc agctgggccc ttccatgata 420  
 cagcagatgc 430

<210> 33470  
 <211> 122  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-B8  
  
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 cc 122

<210> 33471  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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ggggtggtcg ctgaggcccg tgcgagcatt aatggcgagg tgacggggcg tgaggcggtg 180  
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 tgggagagcg gcgcgagagg gagagaggtg gagccgctga acggtggggc cggtttgtca 300  
 ggtgcggcgc ggcgcgcgc agctgggccg cttgggtcgg gggaggagag ggggaaagag 360  
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 tt 422

<210> 33472  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-C11

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 gatatttgcta ctcttgctga taagagtatt tttcctgggg attttctctg ggtcagagac 180  
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 ctacaggctg aggaaagctt tcgaggaact ctgttgacat caactgtctc agctcagctt 300  
 tgtcaggata tagcttttaa tgaatgagtt cccacatcag atatgtagct gcatactctgc 360  
 tgacttaagc tgggtgaagcc tgcttgggaag tgatgctgac tagcttattc tttggtttt 419

<210> 33473  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-C12

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cgccgaacgc ctcgcgcccc cccgcgcgcg gagacctgca tataagccgg ccgcgtgtcg 300  
 tccggcgctc ccgggacagg cgatccgttc gtcacccgct gcaaaccacc aggcaccagc 360  
 tccgcgcgca gaggccggag gactacgacc gacgagggcg acgaacacca aggctccgaa 420  
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<210> 33474  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-C2  
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 gcccggggct ggtggtgcc a gggatctact actcggacga caagatgctg cagtgccggg 240  
 tgttcgccta cgccgacacg cagcgctaca ggctggggcc caactacctg atgctgcccg 300  
 tcaacgcgcc gcgctgcgcg caccacaaca accactacga cggcgccatg aacttcatgc 360  
 accgcgacga ggaggtggac tactaccgt ccaggcacgc g 401

<210> 33475  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-C3  
 <400> 33475

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 ggaaaaaaaa taaaaaaagg ggcgggttta tttaaagggt ccaagctaaa ataaagcttt 180  
 ttataagggt aatgtatttt taattgggtg ccctaattta aaaaaagggg cgactggtaa 240  
 aaaccttggg tttgggaaaa aaattggttt acccaaatta aacgttttga aagaaaatcc 300  
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<210> 33476  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-C4  
  
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 aaaaaaggaa aaaaaaaaaa aacaaaaaac aaaagaaaaa aataaaaaaa aaaataaaaa 180  
 aaaaaaaaaa aggaaaagaa agaagtaaat agaaaaaaaa aagggaagaa agggaaaaat 240  
 aaaaggaaag aaaagaaaaa gaggaacaag aggaaaaaag aatgaaaaaa aggaacagta 300  
 aaagacaaag aataaaagaa aaaaaaccaa agcaaaaatg aaaaaaaaaa accaaacaat 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-C5  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaaa aaaaggggca 180  
 taaaattaaa atgaacgaaa gaaaaaaaaa aaaaagtaac aaaggaatga aacaaaaaag 240  
 aaagacaaaa acacaaatgt aaacaacact taatgccgaa aaaacagatg gaaaaacccc 300  
 aatgatgacc aggggtgaaaa aacgccctaa atcaagaggg atctaaacaa gtgcgtatcc 360  
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<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C6

<400> 33478

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tcgtccctt cgtcgtcccc tgcgcggagg cgggagatgg gggagggcgg cgagctcccc 240

gtccccgtgc ccgtgccgc ctcgtcgtc ggcgacgaca aggtcctggc ggcggcgcag 300

cacatcgta agtcgtcgc cagctccaag aacgcgcgc acgacatgat ccgcatcctc 360

tccggattcg accaccgct ctcctccatc acctccgacc tcttcccgtc cccgtccccc 420

<210> 33479

<211> 96

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aattctcttt ttcaccgtgc ctttccactc accacc 96

<210> 33480

<211> 457

<212> DNA

<213> Zea mays

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<210> 33481  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-D1  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggtaa atctttttaag aatggaaaaa 180  
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 agagccaata ttaaaaaaac cgtactgggt aaaaaaacag ggtgtcaaaa aaaaaagggt 300  
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<210> 33482  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-023-Q1-K1-B11  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-G2  
  
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 attccaatat ttatgtctca tgcattctcat tttggaaaaa ctcatacgaa aagcagattt 360  
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<210> 33484  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-G3  
  
 <400> 33484  
  
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 caagtggaat ttggtcttca gtgtatatac acctacaatt tggatatttct atgtgatttt 420  
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<210> 33485



<211> 223  
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 <223> Clone ID: LIB3068-022-Q1-K1-G4  
  
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 aaaatgatgg tagacgtgtc tgggtcagta ataagagttt ctaaaatctg aatgagattt 180  
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 <213> Zea mays  
  
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<210> 33487  
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 <212> DNA  
 <213> Zea mays  
  
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 cacagggtag caggattgct tctgagggtc tgaagcacag agtctttgag gtttgcctag 180  
 ctgatcttca ggggtgacgag gatcaagctt acaggaaaat caggctccgt gctgaagatg 240  
 tgcagggcag gaatgtgtc acaaactttt ggggtatgaa ttttaccact gataaattga 300  
 gatccctagt gaagaagtgg cagacattaa tcgaagccca tggtgatgtc aagacaaccg 360  
 acaactacat gttgcg 376

<210> 33488  
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 <223> unsure at all n locations  
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 <400> 33488

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 ggccgccgcg gccgaggcgc cggcgcccag ccccgctctcc gccgccgtcg cggcgtcgtc 180  
 gcccttcgcc gcggccctcg tcgccttcgc cgtcgccttc ctcttcgccg ccgtccgcca 240  
 ctgagccgat ggggcctcgt gcctgcaggc tacctagcag tacttcgccg gctgctgccg 300  
 ncgtcgncta gatctattta atggagtgt atccagtagt actagtagta gtgagatttc 360  
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 <213> Zea mays  
  
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 tggctcgaca tagtctgttc tattcgtccc gaaccgaatt ttcgctgggt tgtttgtaag 180  
 taaagtaaatt attacacgat ggagctcgag ag 212

<210> 33490  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-H12  
  
 <400> 33490

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gcttgggtctg tagaaaagga ggatggaacc tttgaaattc cagaatcctg ttgaaaggtc 120  
aaccgccaaa aaacctacca ctgttgcaaa ggagccaggt aaaactccga agatgaagaa 180  
gcttagaaaac ctcagatcca gatatggaca cagttcacia catattctcg ttgccacac 240  
ccaattcatt cgaggctctg ttacacactc tatgtggaac accacaggtg t 291

<210> 33491  
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<213> Zea mays  
<223> Clone ID: LIB3068-022-Q1-K1-H2  
<400> 33491

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gtacggtgca tcagatgtcc ctggacagta aatctggcta aacgacaatg actgtcggcc 120  
ggatcggaac cacaagacat aactcttgac ccagaacgag gcgccgtgtc ccgacttcct 180  
aacatcgact tatgccgac 199

<210> 33492  
<211> 88  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-022-Q1-K1-H3  
<400> 33492

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gggcggtgca acagatgcgg ctggacaa 88

<210> 33493  
<211> 400  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-022-Q1-K1-H5  
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gtagctagta gctagccact cggtcgtgta gtcatacagcc ttctgatcgt caccatggc 120  
 cactgccgag gtccagaccc cgaccgctgt ggcgaccgag gaagcgccgg tggaggagac 180  
 cccggctccg cccgccgtcg tgcccagga ggctgcccc gccgccgagg ccaaggtgga 240  
 ggagccagct gcccggcg agaccgagcc agctgccgcc gctgagcccg agggggcccc 300  
 cgtggcgcg gaggaagaga cgccaaagga ggaagagacg gcaaaggagg cggagccgga 360  
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<210> 33494

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H6

<400> 33494

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 ctgttggtg cccgcaacgg tagcggcagc gacggcgact gcgagaagga cctggaggag 180  
 atccggagcg tggggctggt cctgcccac gcggtggagg agaaccggaa gctctgttac 240  
 cttgcggggc ccgcatcat cactccatc acgcagtact cgct 284

<210> 33495

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H8

<400> 33495

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 tggcaccatc cctgtgagta ccaacactac taatgcagct cgccatgctc tatcagtacc 120  
 gaccatggtt gctaactaga tctccgactt agagaaaaac actaataata ccgcacatgc 180  
 tatcttttca ccactagatt ttcaaacgat cgccatcacc aatagcatga atctcatgca 240  
 cctgtccaac tccgtcaaac tactattctt cta 273

<210> 33496

<211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-A11  
  
 <400> 33496  
  
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 tattgccaac taccttagct aagggttccta actgtatgcc attgttgaga aaaatatctc 120  
 tgaagggaaa ttatcggtt tctgataatg gtttggtcac aatcatctcg gctgcacctt 180  
 ctttatgttc cataaatctg tgtgagtgtt ctcttctcac ttaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa aaca 294

<210> 33497  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-A12  
  
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 cattgcacaa tcaatcattc cgtagttgga ctccgttcct gcatttctga aggtgcagtt 180  
 atagaggact ctttgctaata ggggtgcagac tattacgaga ctgagaatga taagaatgtc 240  
 ctttctgaga ctggtggcat tcccattggt attgggaaaa attcacatat cagaaaagca 300  
 atcattgaca aaaatgctcg cattggagaa aatgtgaaga taatcaattt tgataatgtc 360  
 caagaagcag taaggagac agaaggatat tttatcaaaa gtggaattgt cacggtgatt 420  
 aaagatgc 428

<210> 33498  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-A3  
  
 <400> 33498

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catccgtcgt catccgtcaa atcagttgat acgaagacat tagaggatat aatcggccct 120  
tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180  
cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240  
atagcctcca agataacaac tttgattgac ccgcggcacc ggtatgacca caaccttcac 300  
tgctactacg actgctggct ccactccgaa agcaagcagc ctttctccta ctggccgcac 360  
ttgaagaaat cttatatcag tttgaggaaa aactccaagc tgaaag 406

<210> 33499  
<211> 64  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G11

<400> 33499

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gttg 64

<210> 33500  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-A5

<400> 33500

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aatccggct atgggttatg tatatttgca atttgtctta tgaagacatt ctaccatag 120  
atctgccta tgactttact gatttttgc cactttctag tgctgcctta gtttctcaca 180  
tgcattgga ctagatgcc tttactaata tctaccgcta ctgattctgt tcttactatg 240  
caatcttcta taagctacct tattacatt atgctagacc cagatacct gtatgaccac 300  
atcctttact gctactacta cttttacatt gattttcgaa atcgcgcatt ctttcttct 359

<210> 33501  
<211> 429  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-023-Q1-K1-A9

<400> 33501

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gcagctggag caggagagaa tagaagctga gaaaaagcgg gtaaaagaag acgctcaaca 180

acttgctcga gtttttgaaa ccattggcgc tttcaaactc cctcgcaaag gtggaaaagg 240

aaaacagatc tttgggagtg tcacggcaca ggatgttgtt gacataataa agtcacaact 300

taatagggat gtcgacaaga agctggtgac ggttccagaa atccgtgaaa tcggagagta 360

tgttgcagag atcaagcttc acccagacgt gatagcgcga gtaaggcttg atgtctatgc 420

gaaatgagc 429

<210> 33502

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B10

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acctcttcgg cgggcccagc gtggtgcgcg tgtcccagtg cgacggggcc cactgcttcg 180

ccgtgacgcg cgccgcgcgg ggcccgtcct gcgccgacgt gctccgcgcg atgcagcacg 240

agccccgaggt gatgtacgag gtgctgaagc agaggaccga cggcgccacg gccgccgccc 300

tcgcccgggc cttcggcgca atgccgtacc tgggtgttcga ccccagggcc gccgtgatgt 360

ccggcggcga gagcagcgac tcggagcggt cggccgcggg cgccgccgag gaggaagacg 420

atgaggagtg ggagttcatt 440

<210> 33503

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D12

<400> 33503

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cagtcaccct ctgtaccgtg agtctgagct tatccaggag aactaccttg gtgtgagaaa 180  
tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240  
ccaattcacc cctctgggcc gaatgcttta caaggcacca tctgatggga aatgggggga 300  
gcatgagctc gactacctgc tgttcacgt cggggacgtg aaggtgcagc cgaaccaga 360  
tgaagtcgct gatgtgaagt acgtgaaccg cgaggagctc aaggagctca 410

<210> 33504

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-022-Q1-K1-D5

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ggcgacctcc gttcgtggtt tcagtagcgc cctcagggat gtgcggggca gctacggcct 120  
tccgctggtg ggcgcgctcc ggcaccgct cgacttctac tacttccagg gccaggacaa 180  
gtacttcgag tcccgcgtcg agcgctacgg ctccaccgtg gtgcgcatga acgtcccgcc 240  
gggccccttc atggcgcgcg acccgcggt ggtggcggtc ctggacgcca agagctntcn 300  
cgtcctcttc gacttggaca aggtggagaa gagggacctg ttcacg 346

<210> 33505

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D6

<400> 33505

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gatatggcaa cctaaaaaaaa aaagaaaaa

89

<210> 33506

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D8

<400> 33506

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aagaaaaatt ttattaaact tcaaaaacat cataactaaa acaaaaacag aacaaaaaca 120

acacgaaaaa taaaaaacaa cactacagga cctcctaaac aaaatccact accaaggccc 180

atgacaagaa aatcaaaacc aattgcaaag cgctaccgaa tacaaaaatc aaaagcaaga 240

acataaaaaa aaagcgccac cggaacacc aaccaaacca aaatccaaac ccctacccca 300

aaaaccccct taccggaacc gccaa 325

<210> 33507

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D9

<400> 33507

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ctgcgggaga ggagagggta gaggagttag gcgtgcagca ggatgagcgg ggaggaggcc 120

gacggctcca agccccaggg aggcggcgta cactacggca ccttcagggg gccgcccagc 180

taccgcccc cgcgcccgcc gccgagcctc tccgcccacc accgcggcga ctaccaggcc 240

gttcccgtc gagattccga agcaggtgtg cggggacgta gccatgatcg acttcctgt 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E10

<400> 33508

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tctttccctt gcattcaact tcatacctct tctattgggt cacttttttt cttttttttt 180

tccctctttt tacaacttct tttctggcaa atccctggcg ttccctatct taatcccttt 240

gcttcccatc cttgtttccc tatttggtca tttatcttaa aggccgaac caatctccct 300

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tccct 365

<210> 33509

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E2

<400> 33509

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gctcggtgaa tatcggcgag gaggtgtggc tcacatgcct ctcccacgcc ctactaccg 120

agaccgagga ggtcatgggg ctccctctcg gcgacgtcga gctttccagc aaggtcgcca 180

cagccctggt atggggggcg tcgccgcaga tgaggtgcga gcggaagaag gaccgcgtcg 240

aggtcaaccc cgagcttctc gccgccgat ccgcgcaagc cgagaaaatg acggccacca 300

tc 302

<210> 33510

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E3

<400> 33510

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tcaccgtgga gaagatgctg acggtgacgg cctcgggtgca ggcggcgccg gccatcggtc 180

agatgtactt ccagcgcgcc ctcgacgacg ccggcgactt cttcggcaag acgctgctga 240  
 tggaaactcgt cagctccgag gtcgacgcaa agacgggtct ggagaagccg cgggtgacgg 300  
 cgttcgctca caagacgctg cgggagggcc actacgaggg ggagttcaag gtgccggcgt 360  
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 gggagatcaa gctcgtcacg ggcagcgaca 450

<210> 33511  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E5

<400> 33511

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 ctccatgttt acttacactt ccttgcaact tcttattttt ttttaggggt cacttaattt 240  
 tatttccttg cccctttttt tccaacttgc taactgggat accctttctt tccctagct 300  
 tattcgcttt gcagaatttc cctttttctc cagttgcctt t 341

<210> 33512  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E7

<400> 33512

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 atcgggacgg cggcgcaggg cgcgctgac gacaaggact acaaggagcc cccgccggcg 180  
 ccgctgttcg agcccgggga gctcaagtcc tggctcttct accgcgcggg catcgccgag 240  
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<210> 33513

<211> 449  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-022-Q1-K1-F1

<400> 33513

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gccatacctc gccgtcgccc ggcgtctccag cccagggcag gagaggaggc cactctgact 180  
gtcactctga gtttcgctc acctgagtac tgacggacga catgggagaa gttgaggaca 240  
tgtacacca agacgggacc gtggacatga aagggaatcc cgccgtgaag aagggcaccg 300  
gcaactggcg cgctgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact 360  
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ttgtctncaa caacgtcacc aactggcaa 449

<210> 33514  
<211> 126  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F11

<400> 33514

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acctta 126

<210> 33515  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F12

<400> 33515

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gccatccctc gccgtcgccc ggcgctccag cccagggcag gagaggaggg cactctgact 180  
gtcactctga gcttcgcgtc acctgagtac tgacggacga catgggagaa gttgaggaca 240  
tgtacacca agacgggacc gtggacatga aagggaatcc cgccgtgaag aagggcaccg 300  
gcaactggcg cgctgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact 360  
atggcatgag caccaacctg gtgaactaca tgaagacctg acttgccagg tgaactccgt 420  
tgcccttcaac aacg 434

<210> 33516  
<211> 291  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-022-Q1-K1-F6  
<400> 33516

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tcgaagggtga ccagacctac agcgagaagc ctggccacga ttttactctg acagcgctcg 180  
ttggaagtgt ggatgcttcg agctacgacg cgcttggtgt tcttgggcga cgggctccag 240  
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<210> 33517  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-022-Q1-K1-D11  
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gggccacatc atgggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcggc 180  
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ggaccaggtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300  
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cgtcgctcggg gctatcaaca actacacgga ccagctctac agctacgggc agaagacttc 420  
gtataacctg accgagagcc tgatgt 446

<210> 33518  
<211> 214  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F7

<400> 33518

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tccaagggtta ccagacctac agggagcaac ctggcccaga ttttactctg acaacgtgcg 180  
tttgcatttg cggacgctgt aagctacctc ccgc 214

<210> 33519  
<211> 184  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F8

<400> 33519

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tacctacatc accagattta cacatatcaa cttaccatca aatcaaatat aaccatatcc 180  
atth 184

<210> 33520  
<211> 293  
<212> DNA  
<213> Zea mays

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<400> 33520

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tactcttoca tacacagtgt gctgtactgc aagaccact tctagcagct cttcaacgag 180  
accttttagct tcttcaagaa cttcacgcca tgtggcaagt cttcagacaa tgggtgaactg 240  
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<213> Zea mays  
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gtgctgaag tggaggccga ggccctcaagg attgtagggc gatacgtgcc gaagaagaaa 180  
accttgcgga gttgggatat tcgcggttct aatgttcggt tgaaccgtgt tttcgagttg 240  
aaccgtctgc catatggcgg ttaccgggga gacgacgatg ctggtgttgt cgaccgccgg 300  
ggaaaagggc ggctgctgcg gtcgacgagg gcccttcgcg gggagtgtgt ccggccgcga 360  
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ctgtcgattt g 431

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<223> Clone ID: LIB3068-022-Q1-K1-A2  
<400> 33522

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tgatgatggc ctgctcgccc acggccgtgg ttccgttcca ggggctcaag tccacgcgaa 180  
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tccggcgcat gcaggtgtgg ccggcctacg gtaacaagaa g 281

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 <212> DNA  
 <213> Zea mays  
  
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 <400> 33523  
  
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 gcttgattat agaaaatgtt tggctatgca cgtgatcacc taccatgcat catgttcatg 180  
 gatgaaattg atgccattgg tcggcgaaga ttcagtgagg gaactagtgc tgatcgtgag 240  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tattgttccg atagatgatg ctccgaaagc tgctccact tttggaaatg gagtcactgg 240  
 ctgggaactg gcccttgtga cagcaccaag ttcaaatgag accgccgttg cccaagcaa 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-A5  
  
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<210> 33526  
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 <212> DNA  
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<223> unsure at all n locations  
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<400> 33526

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 tgaagatctg gggtcacttg gtgtcaaaga gcttgagcag cttgagaagc aacttgattc 180  
 atccttaagg cacataagat ccacaaggac acaacatatg cttgatcagc tctactgatct 240  
 tcagaggagg gagcanatgc tgtgtgaagc atataagtgc cttagaagaa agct 294

<210> 33527  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A8

<400> 33527

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 ggcaggccac gggcaccttc gggctgacgg gcggtgctgg gtgggaggcg ctggtgctgg 180  
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<210> 33528  
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 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A9

<400> 33528

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ttcgcttccc ctgaggcaac ggctgtactc ggcacacaga cctggcttat gagcaggatt 180

tttcagccaa gccaaagtgcg tatggttgct acctgtattc tgataggcca cttaatgaca 240

ctggctccca gttattgact tatgaagaat ggcttctcga tggaagagaa acaataatag 300

gaaaatagga agctgcaatc agaaccggct aactagacaa aaggagagag attggctcaa 360

ttcaatatga ggaatttcta ccgattattg agtggtttgt ttccttttcc ctgaaaggta 420

aaatggttta 430

<210> 33529

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<212> DNA

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<223> Clone ID: LIB3068-022-Q1-K1-B1

<400> 33529

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tgcccatctt cctccgttaa ccatggcgac ccagatcagc aagaagaaga agttcgtcag 120

cgacggcgtg ttctacgccg agctcaatga gatgctgacg cgggagctcg cggaggacgg 180

ctactccggc gtggaggtgc gtgtcacacc gatgcgcacg gagatcatca tccgcgcaac 240

gcgcacgcag aacgtgctcg gcgagaaggg ccgcatgac agggagctca cgtctgtggt 300

ccagaagagg ttcaacgttc ccgagaacgg cgctcgacgc tacg 344

<210> 33530

<211> 449

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cgtcgcggcg gctcacgcag agcccccgct cgtcgctggt gaccagggcc cgtggcggcg 180  
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ctgctgtgatt cgcgttgctc tttggagacg ggagacggcg gcgtgactgc gtgcaggcag 300  
actcagacga caccatgatt cggcacggcg ccagcatgat atgagacaaa ccaagtatat 360  
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gatattgctt agattaatac tacgaccga 449

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B5

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acataaaaaa acacaccac aaaaaacat caccaaaaaa caaaaaaaac aacgcaacat 180  
caaacaaaac cacaaccaca acaactaaca cagac 215

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C1

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gccatatcaa ttaataacgc acacgccgta actaatgaaa tcattgcgca tcacttgaat 180  
gcgactacca ctacattcca ataaatgact aatagaacca tatttgcact ggaataagtc 240  
attgctactc taatgcacga ctacttaaca ataggattca ccacagatac taatctgtct 300  
cactatagcc gcaacaacgg cctactcatt cacatccacc gacccatgca ctcacatatt 360  
gatagacata caaatcatga cttgcatatc cgtggattat ctaaagcata gctgatgtct 420

gagagagatc atatgcacta c

441

<210> 33533

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C11

<400> 33533

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gtcggtcaca gggaaacaca ttgcgaacct ctaccggggc atttaatggg tcccgtaaa 180

agtcccggtg tacgccatga aga 203

<210> 33534

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C12

<400> 33534

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ccattaagat gatggacaag gacaaagtgc tcaaggccgg gctttcggag cagataaggc 180

gggagatcac aacgatgcgg ttggtggctc ataagaacat tgttgagctt catgaggtca 240

tggcgacgag gaacaacatc tactttgtca tggagtatgt gaaaggcgga gagctctttg 300

acaagattgg caagagtggc aagctcacag aggccgctgc acacaagtac ttccagcagc 360

tcattggtgc ggtggattac tgccacagcc gaggtgtgta tcaccgggac ttgaagcctg 420

agaaccttct gttgga 436

<210> 33535

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C3

<400> 33535

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gcgtcctgct cgccgccacc ttctcgccg cctccgctaa cgagcaagcc caggcggcca 120

aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcggctac ccggggcacg 180

gcggcggcgg cagcggaggc taccggggc acggcggcgg cggcggcggc ggctaccgcg 240

actgccggtg gggctgctgc aaccgcgggt accatggcgg ctgccggtgc tgctcgcacc 300

ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgaggtccac aactaaatag 360

taatgagatg cgctgctact atatatacgg ggacgtatgc ccgatgggaa gcagagcaca 420

cgcgtagtac gctc 434

<210> 33536

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C4

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tgcgctcggg ggtgggtaag gggagaaatt cgtgagatct gttccggatc aggcgtgcga 180

gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg tactaatgga 240

gtctaagggt ggcaaaaagt ctagcagtag tcgttctatg atgtatgaag cttcccttg 299

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C6

<400> 33537

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<210> 33538

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C7

<400> 33538

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cgaccttcac gccagtctcg gtctcttccg aaggcgctgc gcgcggttgt ttgagaggag 180

aggaggaaga tgagggagtg catctccgtc cacatcgggc aggccggcat ccaagtcggc 240

aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct 300

ggagataaga ccgcgggaca tcacgatgat gccttcagca ctttcttcac ccagactggt 360

gctgggaagc acgttcccgg tccaatcttc gttgatctag aaccaactgt gatcgatgag 420

<210> 33539

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C8

<400> 33539

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gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca ccgtcaaggc 240

cggcgacacc atcacattca agaacaacgc cggcttcccg cacaacgtcg tcttcgac 298

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<212> DNA

<213> Zea mays

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<400> 33540

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gggcggcaaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgaagat 180  
 ctgcatgcag accttcatct gcaccacctc cgaggccaag tgcaaagaac atgcggaggc 240  
 gaggcattccc aagaacgacc tctaccagtg cttccccccac ctcaagaact agtaagcagc 300  
 agaagcatat gctctgtctc gctaaaagac aagtactaca tatatatata tatacgctgt 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D1

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 tc 182

<210> 33542  
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<223> Clone ID: LIB3068-022-Q1-K1-D10

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 tttactatcc ttccattct ctt 203

<210> 33543  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F2

<400> 33543

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acccggccga agctctgcaa catcggtggg atcgatggct gcgaccatca cgagctccgg 300  
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<210> 33544

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F3

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tctttcgtcc ggatcggccc ggtgaggcct gtccttgga ccaaaggag gggctgtgcc 180  
ccggtatcga cccacggaat tatgttaa ataacgttaaaa gtattgggat ttcaacttcgc 240  
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<210> 33545

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-F4

<400> 33545

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ccctgctccc accgacgtcg cattagtgtg tgatgatctc atttttcgt atttttttta 180  
gctcctacac caaagaccag agtcagat 208



<210> 33546  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F5

<400> 33546

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gccgcgcggc ggccggcgccc tgaagccgga cttctatagc cagtcgtgcc cgcgcgcgga 180
gcggatcatt gcggaagtga tgcagacgaa gcagatggcg aacccgacga cggccggcgg 240
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cgggttcaac caggttcaga aatccgaacc ccacgccgag atcaaccaat tccttcccgg 360
ggaccccttt gacgccttgg tgccccccaa gcttgccctt gaacttgaat gccccggg 418
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<210> 33547  
 <211> 272  
 <212> DNA  
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<223> Clone ID: LIB3068-021-Q1-K1-F6

<400> 33547

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ctgctcccac cgacgtggca ttagagtatg atgatctcat ttatcgctat catattagct 180
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ccggacggag ctctgcaaca taggggggat cg 272
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<210> 33548  
 <211> 58  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F7

<400> 33548

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<210> 33549  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F8

<400> 33549

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gggtctgaat ggagttacag acatttgata gtgctctttt gtgcaatcaa ctgtgataga 180  
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tccgggtgag ttcaacaagt tcgagacgaa aggtgtggaa aacctcaagg tcgagctcaa 300  
gtcttccatc gacaagggtg tcaagtttgc tcacgggaac t 341

<210> 33550  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G2

<400> 33550

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tatgagccag ttgatgaggc atgaattatt tcacgacttg gccgcgggta gtgtgaaaag 240  
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<210> 33551  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G3

<400> 33551

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cgcccggect gcacgccgc cgtgttgctg gtacgtacgt acgtatacat gtatgtatgt 180

atatgcgcgc gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtacaacgt 240

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<210> 33552

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G4

<400> 33552

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<210> 33553

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 33553

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<210> 33554

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-G6

<400> 33554

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aaagcgatgc ctaccatacc aactgtctgt cagtctctgg agcatttagg tggctctggat 180  
caatggaagg gttgtgtcct agccagccgg caaagatgag ctgctgatgg taatgatgat 240  
gataagaggc cactgctacc ctactacgta cctnctctt tgtgtgctgc catccgtccc 300  
cgttagacga tcgaggagag aataacgcat agctctctgc tcccggcctg tcttctgccg 360  
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<210> 33555

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G7

<400> 33555

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agaaggtgat gaggaggtga ctggattcta agcgaggcta ctcatcacct gtaactttgg 120  
aagtgtgagt tagttgacat actattcact tgtacctcgt gcgatttctt atacgtgtac 180  
ttgtgtgcgt tctatgggac gcactgagcc cataaatcga ttcgtgacta tgtaggtatg 240  
tgtagtgctg gtgtgtgtac cttggatttc tttctacatc ttcttggggg ggcattgaat 300  
gcctgcagta aggtatgggc taccttctgg ttgacatgcc ttgtgtattt atggtcgata 360  
tgtgtttttg ttt 373

<210> 33556

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H11

<400> 33556

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tgccatctat gtgcatgcat ccaactatgc tgatccaaat aatcctgact tttggaagaa 120

gtggaatgac tttagattc agcacggtaa cgaagacaca ttcagggaga tgcttcgtat 180  
 caaacggaca gtggctgcta gccgtagtca gacacatttc atactaccgg agtacttgat 240  
 gcagaaggat cagagggttaa acctggacga agcagttgac actctgaaac gtgctggcgt 300  
 ccctgaggac gagatggcag ccttggaaag gcaactggct cccggaccat ccactgcacc 360  
 agtagcaaca ccaagcactg cccagcctc tgctaacagg acgatgaact tcgtcagtgc 420  
 tggagtagag gcgcaagccg agagca 446

<210> 33557  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H12

<400> 33557  
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 aacccccacg agtttgtcaa ggctactcc gccatctca aacgctccgg caagatggag 180  
 cttcctgagt gggttgacat tgtgaagact gcgaggttca aggagctccc tccttatgac 240  
 cctgactggg actacatcag ggctgcatct gtagcaagga agatctactt gagacaaggc 300  
 attggtgttg gtggcttcca gaagatttat ggtggccgcc agaggaatgg ctcacgccc 360  
 cctcacttct gcaagagcag tggtgccatt tcacgcaaca tccttcagca gctgcaggag 420  
 atgggcatca ttga 434

<210> 33558  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H3

<400> 33558  
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 aaagaagaag ggcatagcaa tgtacaacgg aatgggcacc atacctgtca tacctgcgac 120  
 gatgctctta agaggtcttc tagacgatgt ctgcttccgc accaccgacg gcagatacag 180

acacgcccgt cacacgacat cgactaatcg aatatgattc ccaagagctt tggcccttgt 240  
 ggtccaccgt tgaaatgctt gtacttccct attaaagaca ccttccttcc gggatggcgc 300  
 ttcaacgacc tggtaggaaa gggcttcgcc gactggca 338

<210> 33559

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F12

<400> 33559

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 tctttggtgg cctgactaac catggaactg atcaactatg cgacaaattt catgtagtat 180  
 gtcagtacag gactttctcat tctaggtgtg ctatacaaat ctgtgctatt gatgctaaga 240  
 tatgctgtga gctatgggga gcacgcagaa ttctaccgag attcaggact ggagctgtcc 300  
 cgagcatgca gcattgtcat gtccttgcc tatgtaatct accgtttctt gcaactgata 360  
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<210> 33560

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-H7

<400> 33560

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 tcggcgccac cgccgccagg tccagccacg cccgccacac cgacgccgac gacgcgattc 180  
 gtctccccag cagctttggc gctggtggtc gaccgtggaa ttgctgagac tccgctatca 240  
 gggacgcctc cctgccggcg tggcgctgca acgacgtggt ggacaagtgc tccgccgact 300  
 gccaggact 309

<210> 33561  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-H8  
  
 <400> 33561  
  
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 tcaagaagcg acatgaattt taactcttga gtgccatcag cccaatatac ctgatgttac 180  
 tgttatgaca cctgtagctt gaaactacta tagtctaatt gattgatacg tcatgctttc 240  
 acagctcgct ttacaactgg acattcatat cttacaagct tctatccatt tagtccgcaa 300  
 ccgatttatg gtacagatca 320

<210> 33562  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-A10  
  
 <400> 33562  
  
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 gggagcttga aatgataaga gaaggacca cccattaatt aaactattcc atggactttg 120  
 tccgcttccc ttaaggcacc ggttgctctcc ggaacaaaac tctcttataa acaagatttt 180  
 ttaatccaac caaatgccta ttggtgctac actgtattct gatatgccac ttaatgacac 240  
 tggcttccac atattgactc atgaaaaata ggttctctat ggaaaagaaa cactcctagg 300  
 aaaatatgaa gctcctatca taa 323

<210> 33563  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-C12  
  
 <400> 33563

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 ctccctctca ccccaactccc ccgcaggagc ggcgggcggcg gcggcgaggt cgtacccccac 120  
 atcggcgagc ggcgggcgga ccgcgggagg caaaggcaag atgttcgggc gcgcgccgaa 180  
 gaagagcgac aacaccaagt actacgagat cctcgggggtg cccaagtcgg cgtcccagga 240  
 cgatctcaag aaggcctacc gcaaggctgc tatcaagaac cccccgaca agggcggtga 300  
 ccccgagaag ttcaaggagc tcgcacaagc ctatgagggt gtgagtgatc cagagaaacg 360  
 tgagatttat gatcaggatg gtgaagatgc ccttaacgaa ggaatgggcg gtggaggatc 420  
 ccatgttgat ccatttgaca tc 442

<210> 33564  
 <211> 177  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-C2  
  
 <400> 33564

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 tttgtgaggg actaggcagg aaagcacgcc atactcttga ttctctgcca cctattgatg 120  
 acttcgaagc tcaggagtac acgtatattc acctcgtgct tacgcacaat ggggttc 177

<210> 33565  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-C3  
  
 <400> 33565

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 gccgcgctgc tcgccggggc tgcccgcgcc ggcgcgagc acgtcatgtg gagcatcatg 120  
 acccagacca tgctgcacag catgctgagc caccgctgcg acagcgggtg ccacagcgac 180  
 tactacacct acgacgcctt catcgaggcc gccagcaagt tccccagctt cggcaccacc 240  
 agcgacgagc agacgctcag gcggtagctc ggcgacatgt tcggccagac gtcccacgaa 300  
 accaccactg gatgggctac tgctgctgat ggaccagtcg gctggggata ctgacaggtg 360



aaggaaca

368

<210> 33566

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C4

<400> 33566

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atgacggagt ccctggtgcg gaacaagccg gggatggcca gcatcaagga gatgccggtg 120

ctgcaggacg ggccgaccgc gggcggtttt gcgcccgtgc gctacgcgcg cccgatttcc 180

aacttgggcc ccagcggcaa ttggcatttt cttaacggcc ttgggggctt tggggattgg 240

aatgtcccag gtcggcaagg 260

<210> 33567

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C7

<400> 33567

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ccgcccacca atccgtcacc aaggccatcg acaaggccgg cggcatgctc ctgctgacgt 120

cgctgctcgg accgtttacg tcccacgccg tggggaccga tgcggtcgcc attcttgtca 180

gcggtgtgac gcttgacgct gacacgaagg ccgcgctcat gcagccggcg aaggtgtcgc 240

tcgtggtcga catgctcaac gagggcgcg cgacacccat gatcaactg 289

<210> 33568

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-D1

<400> 33568

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tgcaggccgc tctggatcatg ggcgtcttcg ccgctttggc taaagaaaat gccctgggtg 120  
agagcaaggc catcgacatc aacccggggc agctcaagtg ctgcaccaac tgcaacttct 180  
ccttctcggg gctctacacc tgcgacgacg tcaaaaagga ctgcgacccc gtctgcaaga 240  
agtgcgtcgt cgccgtgcac gctnctact cgggcaacaa caagttcagg tgcaccgaca 300  
cctncttcg catgtgccg cccaagtgt agatcagaga ggaaagacgc gcgctgctgc 360  
tagctgctat agcttcgttc 380

<210> 33569  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-D10  
<400> 33569

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tgacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa 120  
gaggggaacg gggatgagtt gcgggtttac ctctgctgtg atatattgta ggtgccacta 180  
tgtgtattgt tccccctat ctactacgtg gcatagggtg tattctagta tgttgaaagc 240  
tcatggtgcc gtgctgtatc aataaggtgt tatgcgcata gagtggctca ggaccagggc 300  
tgcgtttgcg ctttgccact ggctgtgttg tatgtttctt ctgctgctat gccattaggg 360  
tttagggatg gtgtgtggat ggcgtcgtgc ttgtagtgtt agctggattt gaagcggact 420  
acatgtaggt ttgttcaatg tcta 444

<210> 33570  
<211> 221  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-D11  
<400> 33570

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tcttatctca tttatcacca atcgcgcgct taccgcattt cgacaacacc acgacggagt 120  
gcatctagct ccacataggc caggccgtaa ttcagctctg aaacacatgc tgtgagctag 180

ctctgtatcg agcatggcat tcaagctgat ggtcaaattc c 221

<210> 33571  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D4

<400> 33571

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tagagcaacg agaacgaatc agctagtagc cgcccgcgta tctccatcat ggccgtgctg 120  
gtcgcgagggc agggacgcga gctgcagcgg tacagccaga gcaccggcgg gcgcatcgtg 180  
gtgggctgca tcccgtagcg cgtgcgggtgc gacggcgaag ctgaggtgct ggcatcacg 240

<210> 33572  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D5

<400> 33572

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cggacgcgtg cgcaagcgtc agcaccgtcg gctgcctccg tgctatctat acgctgacga 120  
tacttcccta cgccaggcac gcccaagatga atcttgacag gttccttatg aatctgaac 179

<210> 33573  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D6

<400> 33573

gccacgcgtg cgcccacgcg tccgtccaca cgtgcgcaca cgcgttggtg cacgcgtgcg 60  
tagagaacaa ctaaggatcat gggcgtcttc ccgatttgg ctaaataaaa tgcctgttt 120  
gatagcaagg acatcgacat caaccgtgg cagcttaaga gctgcaccaa cttcaacttg 180  
tccttcattg agctctac 198

<210> 33574  
<211> 264  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-021-Q1-K1-D7

<400> 33574

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ctctctctct cctctctctt ctctctggcg gtcggcggtg ctccgggggc gcgaagcgcg 180  
ggcttcgcgg ggcgactcng ccgncgcgac ctgcanngtt ggtatgaaag gggtcaccca 240  
cgcggcgcca accacaagcg cccc 264

<210> 33575  
<211> 144  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D8

<400> 33575

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gggcatcttg gatgccctac tagcgtggcc ggcgaggcgg ttgtgttcac ggtggtgaac 120  
cagtgccgag ttcaccctgt gggc 144

<210> 33576  
<211> 127  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D9

<400> 33576

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gcagacaatt caaaaattct ctttatacaa aaaattatta aaaaaattaa taaaattcac 120  
taataaa 127

<210> 33577  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-E1  
  
 <400> 33577  
  
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 tgtcagtgac ctattcttgg ttggactgtt ctaccatctg tataaccaga ttgctacaaa 120  
 caccttggag cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180  
 cgtcatcggg ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240  
 cacgtgcatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300  
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<210> 33578  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-021-Q1-K1-C1  
  
 <400> 33578  
  
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 gctcagacag ctgctgaatc agcggagcga gctgcgtccg cagcccgcgc cgctgcgaac 180  
 cttgtgcagc tacgcattgc agacctaaag aagaattcaa gggctctataa caagtacacc 240  
 gacagtgctc aaaaggaaag cctcatcat gccgagggtg cacagnaacc agtatttgat 300  
 ca 302

<210> 33579  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-E12  
  
 <400> 33579

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aatgctccct gctaggetca gtgttgcca tctgttgct tgtcctcgga acctccctgt 120  
tctttggtgg cctgactaac cttggaactg agcagctatg cgacaaattg catgtacatg 180  
tcagcacagg acttctgatt cttggtgtgc tatgcaactc tgtgccactg atgctgagat 240  
atgctgtgag ctctggagag cacgcagaat tctctcgga ttcaggactg gagctgtccc 300  
tagcatgcag cattgtcatg ctcttgccct atgtaatcta ccttttcttg caactgaaaa 360  
cccaccagca actatttgaa cgccaaccgc aagagggtga agatggtgat gattcgtgtc 420  
ttaagacgt ggcactactg 440

<210> 33580  
<211> 113  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-E2  
<400> 33580

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agggcgtgta aaactgtcga actatttgaa cgaaagttgt acactgcagt atg 113

<210> 33581  
<211> 215  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-E4  
<400> 33581

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cgcaatgggc gatccaccgc ttgcgcgtcg gtaccatgtc cgctggaagc gagaggccgt 120  
acgccttctc gccctcgtcg gcggtcccg gccccttctc ccgcggctcc ggctccgctc 180  
ccaccacggc cgcgacagat agcactggga ggagc 215

<210> 33582  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-E7

<400> 33582

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actagagaac aacaagcgtg aaccatggcg gacgagtacg gccgcagcgg ctacggcagg 120  
tccggcgccg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180  
ggccgtggcg aaggtggcta caacaagtcg ggccggcgatg acgactacgg ccgcagcggc 240  
ggcgatgggt a 251

<210> 33583

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F10

<400> 33583

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gcctccacca cgtcgaggac caactcgcg gtgaactact cgaacgagat ccacgacctc 180  
tccaccgtgc agagcggctc cgccgtcccc accttgttct acccggacaa gtccatcgcc 240  
gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtggtggc gacgttcctt 300  
ctggtgttcg tcacctgcgg ggccggtcc atctacggcg aagacaacag gcgcatctcg 360  
cagctggggc agtcggtggc cgccgggctc atcgtcaccg tcatgatcta cgccaccggc 420  
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<210> 33584

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H6

<400> 33584

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cggggctgcc ggcccgccg cgccagcatgg cgtgtggagc atcatcacc ggcccatgtt 120

ccagagcatg ctgagccacc gcggtgacag cgggtgccag ggcgccttct acacctacga 180  
 cgcctttatc gaggccgcca gcaagttccc cggcttcggc accaccggtg acgagcagac 240  
 gcgcatgcgg tagctcgccg tctttcttca gtcagacggt ccacgaaacc accggtggat 300  
 ggtcgactgc tcttgatgga c 321

<210> 33585  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H9

<400> 33585

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 ttggtaccta tggtgttctt gctggcatct catttgtgtct ttgtggaaag cttagtcctg 180  
 aagctttgaa ctggttattt atcaagggat tggttggttg gtttatgcaa acagcactgc 240  
 ttaaagttac tttactttca ttaggcaatg ggtaagcacc tctattggac attatagctt 300  
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<210> 33586  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-021-Q1-K1-A1

<400> 33586

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 tttcctgacg ttaatgtgtg gccttattgg tatccctcca tcaaaggtg tcattccaca 180  
 atcacccatg catacgaaga gtttggttac tctcaagcac cagatccttc gtaaccggct 240  
 agtagccacc gcacggaagg gcatgagcca gaatgcaagc ctgagccact gtatggcagc 300



atgcangatg cttatcagca gatgcagaca cactgggttt atcagcaaca gtctgtcaga 360  
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gatgcacaag tgatgagaca gtcttt 446

<210> 33587  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-A10  
<400> 33587

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taccgggatt atttcgtgta aagatcacat gtgaccta gaattaaaac gtgagtcgtt 180  
ctagcatata ttgtgaagca cgtgctggca agtttccgtt cttggcattg ggtcaaattg 240  
gggtgccctg cttccgattc cctgctgcac cgtgcctatg tagcatgtaa agttgtatat 300  
gctgcgaatc gtagtacagc tatatatttg tgtgtcctaa atcttgagtg tctttttact 360  
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<210> 33588  
<211> 339  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-A11  
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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaataaaaa aataaaaaat aaaaaaaaaa aaaaaaaaaa aaagttggac 180  
acttttttaa atcgaaatgt tatttcaata gattgacaat atctaacttt ttaaattggg 240  
tcaaaataat taattcaatc aggcagaaaa tataaaataa tagggactgt aaaaactgtg 300  
tatttaacaa ttctaaagtc tttatgtcaa atttcattt 339

<210> 33589

<211> 445  
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 <213> Zea mays  
  
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 gtggaacact ttggattcac ccatcttagt gctggagatc ttttgcgtgc agagattaaa 300  
 tctggctctg agaatggaac catgattgaa aacatgataa aggatggaaa gattgttcca 360  
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 <211> 190  
 <212> DNA  
 <213> Zea mays  
  
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 acaacacatt 190

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 <211> 131  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-A4  
  
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caaggatccg cgtagaagga ttactgcagc tcaagcttta agtcattccat ggatcagaaa 120  
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<210> 33592  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact cctccacaa cgccttcagc 180  
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240  
 ggcttcggct tcgtcacctt ctccacggag gaagcgatgc ggaacgccat cgagggcatg 300  
 aacggcaagg agctggacgg ncgcaacatc accgtcaacg 340

<210> 33593  
 <211> 197  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A6

<400> 33593

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 caatgcatat ttttgtggct gaagcagatt tctgtacctt attaggtttg cacacctgtg 180  
 cacttgaaaa gattcac 197

<210> 33594  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A8

<400> 33594

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tccgcccgga tccgccccgc gaggtgcggc cttggagcca aaaagaaggc ccgttccccg 180  
cttcccaacc acggaataa gtaaataacg gttaaaggaa tggcatttca cttgcccccc 240  
gaggcttcca cttatcctac acctctc 267

<210> 33595  
<211> 391  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-B10

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cgatgactgc ttctgcagct gctgggtgtc agatgggtggc tgcacgccct tgcatttcgg 180  
cctcgccagg aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta 240  
ccactgctac attccccaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg 300  
ttgttgtaag agcaatatcg gaagagtgtg gcccgccagg gcttcccatt gatctcagag 360  
gtaaaagggc attcattgct ggagttgctg a 391

<210> 33596  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-B11

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tccactccac ccaatggcga tgccgagggc ggagtcactc cgcttactgg gcctgctgaa 180  
gcagcccag tccgacgccg gcgccccatt cgagctcgac gagcgcgacg tgggtgtgtcc 240  
ggcgtgcggt gggcagcaag acggttgtgc cgccccgcct acgccgaggt gtcattgcgca 300

cgccgtgccg ctgtacatct taggactgt

329

<210> 33597

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B12

<400> 33597

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cgctctgttg tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cagcactggt gcagctatga agctgtatgt accttactgt tgggtgacta 240

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<210> 33598

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-B3

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agttggttcg tgcaaagtca gatggctcag tgataatttg catctatctg atgacttgaa 120

tcatgctgaa ccaggcttta gttctgctag cagtctgtcc agtttcaata actacgttta 180

tttgttgata gcatttccat tcatttttctg gtatcatgcc ttggtttctt gttcaaaata 240

atatggtttg cttgcatgaa gtacatgtag tgacagtnac tagtaagagt taaacatgt 300

gagtattttt ta 312

<210> 33599

<211> 240

<212> DNA

<213> Zea mays

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<400> 33599

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tggttgaggg acttggtctt aaagctcgcc atactcttga tactctgcc cctattgatt 120  
acttcgtagc tcaaaagtac acgtatcttt aactcgtgct tacacacaat ggggttacgc 180  
atgtcaagat caaccgtatt tttaaatac catctttgag aaaacggttg aaattatctt 240

<210> 33600

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B5

<400> 33600

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gtctgaagct ggggagtcca atgtgtttcg ccaggaaaaa gatgctgcag tagatggggc 120  
accatctgac actgatggag cagtggctga gacccgagag gaagaaacga cagagaatgt 180  
tggtgaagcg acatttagct atgaccgctt gatatctaaa tctaccgac cagtcctgtg 240  
gatagattac aaacgcagag aggcatactt atcagatagt gagttccaaa gtgttttttg 300  
catgaccaag gatgcattct accgaca 327

<210> 33601

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H11

<400> 33601

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gtgataaacc tccaatttat gacatatatg ctctgactt gtacattcca ttaatggcat 120  
ttggtacctt tggtgttctt gctggcatct cattgggtct ttgtggaaag tttagtactg 180  
aagctttgaa ctgtttatgt atcaagggat tgggttggttg gtttatgcat acagcactgc 240  
tttaagttac tatactttca ttactcaatg tggaagctcc tttattggac attatagctt 300  
a 301

<210> 33602  
 <211> 89  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B6

<400> 33602

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cgaccccg gc tacctac act tcaagccct 89

<210> 33603  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-021-Q1-K1-B7

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ccgccgacgt ctctgggtcca acgggcccga gacggcgctc cccacgctgc aggacaagca 120

gtgcgcccgc aaggccttcg tcgtgctcat cgcgcgcctt ctgcgcgcgc agctctttct 180

ncgctacgac tncctcgacg tncaggctcg cgcctccggg ctggggctcg cggtcaccat 240

cacctcgctc aagaaagcca cttctgang tatgagctct gatcg 285

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 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B9

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tagggaacta gattagctta gctacctatc taattttatt tagaaattcc gggatccgcg 180

attggacatg gaaaatagaa aaactttttc ttgggttaaag gaacagatga ttcgatcgat 240

ttctgtatcg atcatgatat acgtaataac tcgcacatct atttcaaacy catatcccat 300

ttttgcgcag caggggttatg aaaacccgcg ggaagcaact ggacgaattg tatgtgccaa 360  
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 t 421

<210> 33605  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-020-Q1-K1-E10  
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 gtatagattt tcgaaatata aaaccacttc ttaattccat tcactacacc accatctttt 180  
 actacctcaa acttttccac atctctatca ctactaccac ctttatattc aactttcata 240  
 ctgtc 245

<210> 33606  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-020-Q1-K1-E2  
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 aggaccgggt cggctactac aagaggtact gcggtatgct cggagtgggg tacggggaca 180  
 acatggcatg cgggagccag aagccttacg gaggatgatg aactagtag ctgatctatg 240  
 gttgctgcaa tgcaagcctt cacgtgtgtt tgccctctta cctaaagaat aaatcaagct 300  
 agcagcaaac ctaccttcgg cgtgtgtcta cttgcttata atagtgtgtg tccgtgtatg 360  
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<210> 33607  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-E7  
  
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<210> 33608  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-E9  
  
 <400> 33608  
  
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 tacaaagtac ggagagatgt aaccacggtc aaattgcatt cctccacaa catagagaaa 180  
 gttctcagaa ctcttccctt cttcaagggt gacaacgccc ttccgaccga ccttgctcat 240  
 ggcctctgct atcatgttac caatttcata gttgttgcca gcactaactg cagcaacatc 300  
 tgcaagctca ctatcttcaa cctccttaga caacttcctt agttcttcaa ctagtgtttt 360  
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 <223> Clone ID: LIB3068-020-Q1-K1-F1  
  
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<210> 33610  
 <211> 217  
 <212> DNA  
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<223> Clone ID: LIB3068-020-Q1-K1-F11

<400> 33610

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caatacccat tatcactgct cttcttgctt tcaccctact tgtctaacat attatctatt 180  
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<210> 33611

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F2

<400> 33611

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agaccagcgc tgggtgctgc aagccgacca ccggcgctct gccggcgcgcc gacttctaca 180  
taacgggctt caccgtcctt aacgcgacca ccgacgctgc agtgactgga tgcagcaaca 240  
aagttcctta cgaccctaac ctgattaccg gcatccaagg cctgaatcag tactggagca 300  
acatcagggtg cccagcaac aacgggcaga gcagctggaa gaacgcctgg aagaaggccg 360  
gcgcctgctc cggcctcagc gagaaagact acttcgagac t 401

<210> 33612

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F3

<400> 33612

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ctcgagcatt ccgccagcag ccgacgggtt cggggccggg acccccgagc ccaacctca 180  
gagccaatcc ttttccgaa gttactgatc cgttttgtcg acttcctttg cctacattgt 240

ttcattgtcc attaggtagt tcactttgta ta

272

<210> 33613

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F4

<400> 33613

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agaacaggat aatctctgtt gagcgcatgt atcaatattg caggcttcct agtgaagcac 180  
cattgattat tgagaactgc cgtccaccat catcatggcc tcagaatgga aacattgaac 240  
tgattgatct caaggtccgc tacaaggacg atctaccatt agttcttcat ggtgtaagtt 300  
gtatgtttcc tggcgggaaa aagattggga ttgtatggcg tactggaagc ggtaaactta 360  
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<210> 33614

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F8

<400> 33614

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ccgcgtacgg aacgggggtt gagccggagc cgagggagga cgtggcggtg gtgctggtgc 180  
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gggctgctgc caggggtcc accgaagtcg gggacgtcgt cggcgtctgc cgatgggtcg 360  
cagagaacat caagccgcgc ggcatacttc tcgtcggatc ctcaactgga gcaccaattg 420  
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 <211> 222  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-F9  
  
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 caacacacac attaacatac aaattattac tttcaccata taaataatct catattatct 180  
 taatcatatt actaatataa atattctctt ccatttaatt ac 222

<210> 33616  
 <211> 186  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-G10  
  
 <400> 33616  
  
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<210> 33617  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-G11  
  
 <400> 33617  
  
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 tcaacacggg cgccaagatc ccttcagtcg gcttgggaac ttggcattct gatcctgtcc 180  
 ttgttgctga agccgtcgcg gctggccatc aaggttgggt accgccacat tgattgtgct 240  
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gtagtgtagc gcgaggattt gtggattaca tctaaactct ggaatactga tcatgcttca 360  
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<210> 33618  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G4

<400> 33618

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<210> 33619  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G7

<400> 33619

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 tccaagtttt ctaacacatg ttcaaaaccc aatgaatttt tccaacctga caccgaattt 180  
 caactgaatg ggccccgata aacacggcct ggattctaaa aaccgtggca ttgccccact 240  
 taatcccctt ggagtaaata ccctatcgtc aaatttg 277

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D9

<400> 33620

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 tggatcgta taccacaatc gattctctag cagcaaattt atgtgatgtt gtgacacata 180  
 tacctactgt cgataaagtt gccatagcca atgcaaattt tcaacacca taactccatc 240  
 ttca 244

<210> 33621  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G8

<400> 33621

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 tggacaacct gcccttttgt acatcgtgcc cttcactctt ggcaccttga tcgcgcttgg 180  
 atggaagaga ggggagctgc agaacctgtg ggcgagggga gagccagaga gagtgtgcac 240  
 gcatatgcat atgcccgtgc tgccgacgac cccaaactaa ccacagggtc agtagaaaat 300  
 cagcaagggt tcttagcttc tgcaaaatat tgtatttgcc tgctggtaat atgcaaacca 360  
 aattaatgcc agtttaaaat gaggcacctg cttcttgag accgcaaagt ctgattgtga 420  
 gctaactgct tgccaatgtg ccttcattca tgt 453

<210> 33622  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G9

<400> 33622

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 aagaccaccg cacacatccc tatatgcggc tctctaactt gcgatggcca ttatgtcctt 180  
 gtgaatcaat tccacggttg gcccatcaat gatcattacc gatacatcta ttgtactcaa 240  
 atgtatgcgt atgagaactt gataacctct tcgtttgaca atctgttcca ggtcgggtata 300

tcgtaacccg aggatctgtg gattacatct aaactctgga atacttgatc atgc 354

<210> 33623

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H10

<400> 33623

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gtgaggatca agctgatgag gaggatgatt ctccaatatg tctcgttgaa tacgacacag 120

aaaatgcaca ttcggtcacc tactgccagc atcattggca tctctggtgc atactctcat 180

ggatggacag gcgcgtgaca tgcccagtct gtgaccagat aactctgaca gacaggatgt 240

acgaatagca ctctaggctg atgacccctgc 270

<210> 33624

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B7

<400> 33624

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gaatgtgagg aatgttatgg ttaaacttcc ttatatacga tgtggtacaa agcaacgtgc 120

gacttgatg acatgatcga ttgtggattt gcctatccat cattttacat agtaatgaaa 180

atgctcttgg cttgacatac tatgttctat tcgtactgaa ccgaattttc gctgggttgt 240

atgtgagtaa agtagatagt acacgatgga cctcgatagg acataatttc tttttgatct 300

agggaaagaa tctatggtta gtgaaaacta atatattagg ccaactttgt aagtctattc 360

ttaatatata aatcaaaagg ttaaaata 388

<210> 33625

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B9

<400> 33625

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atgagttttt catttgccaa tcgaccttct tcaaccctct agatcgaaag gccaattttt 120  
ttttcttttt agtttttggt attatttcgc attcttttta ctttttcaat tcttcaaaaa 180  
ttctctcgac tgaattcacg tcagaacacg gaatcataaa gatcaatttt ttgcatcggt 240  
tttattaaaa ttgttttgct aacaaaacat agaaataaaa accaaaaaat tgaaattcct 300  
tatccgtttt ggcgaattga actgcttggt caattgtggt tgttgaattc tatgcttatg 360  
gaacctcttt tgtactatga tattcttatt cttcttggt 399

<210> 33626

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C10

<400> 33626

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gggcgtgcgg agagaccgaa gaagcgggag agatggctcg taccaagcag actgctggca 120  
agtccacggg aggggaaggct ccaggaagc agcttgccac caaggctgac cgtaagtctg 180  
ccccaccac tgggtggagtg aagaagcctc accgttaccg tcctggaact gttgccctcc 240  
gtgagatccg caagtatcag aagagcactg agctgctgat caggaagctg cccttcaga 300  
ggctcggcag ggaaattgca caggactttc aaaactgatt tgcgtttcca gagccatgcg 360  
gtgcttggcc ttcaagaggc tgctgaggca taccttggtg gtctgtttga agac 414

<210> 33627

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C11

<400> 33627

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cggagctaata ggcactggcc gttggggcgc atacgcccta acatggatcg aatcgttcgg 120



taagcagaag ctccatgatg tagattggat tctcacttaa aggcataatat atctaataacc 180  
tctcacagga gctacgcacc actttatggt gaatctagcg cgatgaccaa tagtgtgaat 240  
caactgttgc tatgagacta cgtggaatca cta 273

<210> 33628  
<211> 422  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-020-Q1-K1-C2  
<400> 33628

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cgtggggcag aagtttctga catagctatt gcagttcggg aagggtgctga tgccatcatg 120  
ttatctggcg aaactgctca tggaaagtat ccactaaagg cagtcaaggt gatgcacact 180  
gtggcactca gaacagaatc cagcctttat aaccaacta cttctcctag tcttgttgca 240  
tctgcacagg gtctacagaa tgaggacttc tccgcaagcc agctaagtaa aatgttctga 300  
tctcatgcat cgatgatggc caacaccctt cgcacaccaa tcattgtatt tacacagaca 360  
ggctccatgg ctgttctcct gagccactat ccgtccttgt ctacactatt tgcatttaca 420  
aa 422

<210> 33629  
<211> 455  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-020-Q1-K1-C3  
<400> 33629

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gaccaggaag ctctggaacg tgcttctcgc cctgggggaac attgccttcg cctacacttt 120  
cgctgaagta ttgatcgaga tccaggatac actcaagtca ccaccaccgg agaacaggac 180  
gatgaagaag gcagcaatgt acgggatcgg agccaccacc atcttctaca tctccgtcgg 240  
ctgcgctggg tacgccgcgt tcggttcgaa tgctccgggc aacatcttgg cggcaggcgg 300  
tctgggtccc ttgtggctcg tcgacattgc caacatgtgc ctcatcctcc acctgatcgg 360

tgcataccat gtatacgctc agcctgtctt cgctattggt gagagggtggg ccgtctcacg 420  
 ggggccagaa gcccaagtca tgagcagcgc ataca 455

<210> 33630  
 <211> 134  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C4

<400> 33630

acaaacaaaa acacataaaa aaaaaatcta ttactaatcc taataacaaa aaaaaaaatg 60  
 aaggattcta ttaaatcaag aacggcaaca ataaaaagct tctcgcaatt tcccaccgtt 120  
 tctcctccct ttgg 134

<210> 33631  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C6

<400> 33631

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 tgtgggcttt tcttcatcgg cgcggcaaca gcgaaagctt ctcggtctct cccaccgctg 120  
 ctccgccgtt tgggtggttc cgcgccttgg ccgcgcgggt tggatccgag ctccgtgcag 180  
 cagctccgcc gcgatacgta tcgcatagga ttccactgga ttcagctgct gagcagggta 240  
 ctggaagggtg gatttgatac tagctctgaa cagccagtag aatttctcaa atactgtcca 300  
 ggatcatggc ttctctctgt gatttctgtg ggaaacaaaa gtcaatgatc tactgcagat 360  
 cagatgcggc atcattgggc ttatcatgcg accgtaat 398

<210> 33632  
 <211> 103  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C8

<400> 33632

cccacgcgtc cgagttgctg cacttaacct ttactttggc ggcttgaaat ctggtgtgag 60  
 ggctggtggtt atttgagatc cagcaagacc tggtcagaag tgg 103

<210> 33633  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C9

<400> 33633

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 ggagctctaa tttatTTTTG gttttttgaa tattcctaata tattaataa attcttgtct 120  
 atgccagaat atttatatgt ctcatTTcat ttcttTgtga agggatatta tcttaaagct 180  
 ggaatatggt atattcatca tattatgttt aatctagggt gacccttgat atgaaataaa 240  
 tcatattgtc aggagaatac ttgtgtgcac ccccatcctc tgacctagat gtgttactca 300  
 tttctgacct tgctcagaat aaaaaattct tacc 334

<210> 33634  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D1

<400> 33634

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 gtaccagaca gcctgtaaca acagtattta caaagctgaa ggagcttgcc aaacgcctaa 120  
 agttgagggt caagaagaaa gaaaatggga ccttgaaatt ggcagctccg aaggaaggaa 180  
 agaagggtat gcttgagctt gatgcataga tttttgagggt tgctccttct ttgctcttag 240  
 ttgagttgaa aaaaaccaat ggggacacgc tggagtatca aaagctagtg aaagaggaga 300  
 taaggccggc actgaaggat attgtttggg tttggcaaga tgatcaacac cagtgtcac 360  
 aatcaccaga gtctctatta tcaccaccgg agacacaaga tgaatt 406

<210> 33635  
 <211> 391

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-D2  
  
 <400> 33635  
  
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 aagcatcggg aagcagtga aggaatttct ggattacaag gactccattg gattcattgt 120  
 tcatgacgat gcaaagaaga tggacaaggg actgaagaac cgttacacgg tttgatccca 180  
 aagagtagta gcatgtaggg tggttctatc cgattccgta gcaccttgca gagtgtgttg 240  
 aaggttctct atttgctgag gagttgctta agcataatct aacatgatgt cgaatgtatt 300  
 cctgtatgtt ccatatgtca gtcacctagg tgttgttttt gtctcagcgc tgtgtgctat 360  
 atatatatat atatatatat atatattgga t 391

<210> 33636  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-020-Q1-K1-D3  
  
 <400> 33636  
  
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 gtgcgagccg cgggaaccgg cggtagcgcc cccgaacctc tccgtgccga gagtgtccca 180  
 gtatctgtac ctcttgagcg cgtgggtcgc ctgcgcgggc gtggctgccg ggaccgtggc 240  
 gcgcggggcc ttgggcgact cttccccgtt ggtctacggg ttctctcaaag tctcgatcgg 300  
 agccctcggt ttaccgcgc tgctcactct cgtcttcgcc ctgcgggtct tgcgcgccat 360  
 gcttgcggtg gggttcagac ggctactccg cactcacgcc agggagattc agatccatgc 420  
 cacgaagatt ttagagcgtt aacgt 445

<210> 33637  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3068-020-Q1-K1-D5

<400> 33637

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gactccaaaa gacatagttg atggtttacc caatctaaat cttgccttcg tggctcatat 120  
tttccaaaaa agaaatgggt tgtccaaaca aatgaaacaa gtttcctttg tggatggact 180  
ctctgatgat gctcaagttt ccaggaaga aaggctattc cggctgtgga ttaacagcct 240  
tggaatttca acttacatca acaatgtgtt tgaagacctt agaaatggat gggttctcct 300  
tgagggtgatt gacaagattg ctccaggctc agttaattgg aagatggcaa atcgcccacc 360  
aatcaaatta ccattcagga aagttgaaaa ctgcaatcaa gttttgaaga ttggaaaaga 420  
actaaaattt tctttggtga atattgctgg anatgata 458

<210> 33638

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D8

<400> 33638

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cggactgcaa tagacttcat tgtgggttta ccctaactaa tatcttgcca ttcgtggctc 120  
atattctcca gaagagatat ggcatgatca agcaaatgta acaagtattc ctttttggat 180  
ggactctctg atgatgctca ctttttcaag gttgaaaagt catttctgct gttgattatc 240  
tggtttttat tttcactttc tataacattg tgtttagaag acctttt 287

<210> 33639

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B6

<400> 33639

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aaattagagg aatgttatgg taaaacttcg tttaaaacga tgtggtagaa agcaacgtgc 120

gacttgaagg acatgatcga ttgtggattt gcctatccat cattttccat agtaatgaaa 180  
atgctcttgg ctcgacatag tctgttctat tcgtcccgaa ccgaattttc gctgggttgt 240  
ttgtaagtaa agtaaatagt acacgatgga gctcgagagg acagaatttc tttttgatca 300  
agggaaagaa tctaggggta gtgaaaacta ataaattagg ccaactttgt cagtctatcc 360  
ttaatataga aatcaaaagg ttaaaataag aaaaagtcta atttttggaa gattggaaaa 420  
acttttttga tgaaaagtct atcttgatca attgttcata 460

<210> 33640

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H5

<400> 33640

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accagctgac cggcaggatg cccgacgatc tgctgcaggg acagttccgg gcggtagcac 120  
tgtcgtccaa acagctgacg gtcccaaccc cgctcgacta cgctctcgac gagatcaact 180  
ctgtagacct ctcccacagc tagctgacgg gcgaccgctc ctaccagttc gacgtcgggc 240  
ggaccagtac tcatggacga cctgtcgtgt aactacctgg actttgacct gatccatctg 300  
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<210> 33641

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H6

<400> 33641

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cacgagacag caactgcgtg aacttgccat gttgaattcg cactccgag aggagagtcc 120  
acgttcaggc ggtgctccta caagttcctt cagtaagact gtctccgta ggcctaataa 180  
aacaggggac acagaattgt agatgacact gtttatcact ggttgaagag agaagtttga 240  
aatacgggat ctactggaga tagcctaact gcggcatgaa aagagtgaaa caatgacacc 300

cattcctcca tcatgatcct tcggcaaccc cacttagtcc atgccttcac atcctatattt 360  
ccatgagcaa agctttcatg atggtgttgg tagtgtgtga catcctttta agtactagca 420  
agtgaatttt gaacctccat tccatgtggc attaacc 457

<210> 33642

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H8

<400> 33642

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tgccagcaga cgcgcccggg gctagcttgc attctgactt agacgcgtgc agtcataatc 180  
cggctcacga tatcttaacg cacttggtt ttcaaccaag cgcgataacc aactgtgtga 240  
atcaacggct cctctcgtac taagctgaat tactatgtgc aagcgggtcat cacatgggac 300  
ctaccaacct gtctgacgac aagtgtaaac 330

<210> 33643

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H9

<400> 33643

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<210> 33644

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A1

<400> 33644

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gggtcagttg gtgctgcagg ttctcatgat ggtggtaatg tccaaggaca agatccggaa 120

cgatctaccc ctgaagggtg cacaaatacc aagcatgata aaggtcaaca aagttctaca 180  
 ggtgctgaag gcttacaagt tcccgttag acctaatagc ggacattggt gggttaactt 240  
 ctggaaaaag tgcatttgat gctgcaaaag acattatgga agctcttatg atcaaacata 300  
 cttatttagc caatgagctt gagcttttaa ctggctaaat tggatcacgg tttggtactt 360

<210> 33645

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A10

<400> 33645

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 gggactcata taatctggcg catgctaaca tcatatgcat ggctagtcac actgaaaatg 120  
 atcatgagga cgagatcaat cccgctcatg agctcttgct tgatcactcc atgaaagaga 180  
 aagacactga ccgaacagac tactacggtc tataccttga aaaccagtgc cgatttgctc 240  
 tgcaagtcac cgaagctgct ggctatgaga tggacgcca catatacagg attaagctat 300  
 atgcattggc ataatttca aaggctggac actatgatcc aaaagaattg gcgctctaca 360  
 tgaggaatg 369

<210> 33646

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A11

<400> 33646

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 aggggtcaaa taccctgcc aatactaaca tcatatccat ggctgtgcaa attgtacgtt 120  
 ttgatggggt tgagatccat ggggctcatg gctacctgct tgagcaattt atgaaagata 180  
 aagcgaatga ccgaacagac gaatatgggt gatcccttga gaaccgctgc cgatttgctt 240  
 tggaagttgt tgaagctgtt gttaatgaca tagggcgga cagagttgga attaggctat 300  
 cgccattcgc agaatttca gagtctggag actctaattc aaaagaattg gtgctttaca 360



tgatgaatgc cctcaataag tatggtattc tttactgtca catgggggaa ccaagaatga 420  
agactcgtgg agaaaaaact gaatg 445

<210> 33647  
<211> 196  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A12

<400> 33647

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agttttgaat actgtttaga tccatggatc tcatgtctct cctacttgag ctctttatga 180  
aaaataaatc ctctga 196

<210> 33648  
<211> 454  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-020-Q1-K1-A2

<400> 33648

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tgttattcgt tacttcctta ctcaggcttt gaactttgca ttttaaggact acttcaagag 120  
gttggtcaac ttcaagaagg atagggatgg ctattggaag tggtttgctg gcaacctggc 180  
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aacaagggtg gctaatacgc cgaaggctgc caagggagga ggtgaaaggc agttcaatgg 300  
gcttgctgat gtctaccgca agacactcaa gtctgatggt attgctgggc tttaccgtgg 360  
atttaacatc ttctgtgttg gaatcatttg ttatcgtggt ctgtactttg agctctatga 420  
ttncatcaag ccaagttgtc ttactggcaa cctt 454

<210> 33649  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A3

<400> 33649

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atgagcctat gaccagccga agacatagtc gaggatgtag acgatgatga gcgagagcgg 180  
gtagagcatg taggcgacga ggcaggtcca gagcgggaac gtggtccgga agctggtgaa 240  
gagggccatg acgacgcaga ccagcaggat gatgagcacc ttcgacgaga agtcccacgt 300  
caggttcctg aagtagatga gcgcatgaa cactccgagg cacagcgtgt tgttcacgt 360  
cacgcccgcg tacacc 376

<210> 33650

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A4

<400> 33650

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gagagggaaa aataaaaaaa ataaaaaac actataaaaa tacaagacat tactgtatct 120  
attactatct atattaatat gctcatcctt ttaaataattt aatttttttt accgttattt 180  
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<210> 33651

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A5

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cgatctaccc ctgaagggtg cacaaatacc agccatgac aaggtaaca gagttctaca 180  
ggtgctgagg gtcacaagt tccgcttaga cgtaatagcg gacatgggtg ggtaacttct 240

gcagcaagtgc catttgatgc tgcaaaagac ataatggaag ctcttagaag caaacatact 300  
aatctagcca atgagcttga gcttttactg tcagaaattg gatcacgggtt tgttactctg 360  
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<210> 33652

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A8

<400> 33652

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gcgctgttgt gtctgcgacc tacacagaat ttcggctgga aaaagcgccc gagatggaca 180  
tatgacccaa tctgagccct ttcaggtgat gaaatctgca tacagtggga atccatttgt 240  
cgtgggtact aactaga 258

<210> 33653

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A9

<400> 33653

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ttgatgggggt tgagatccat ggggctcatg gctacctgct tgagcaattt atgaaagata 180  
aagtgaatga ccgaacagac gaatatgggt gatcccttga gaaccgctgc cgatttgctt 240  
tggaagtgtgt tgaagctgtt gttaatgaga taggggcgga cagagttgga attaggctat 300  
cgccattcgc agaatttca gagtctggag actctaattcc aaaagaattg gggctttaca 360  
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<210> 33654

<211> 439

<212> DNA  
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 ctagcatata tgtgctattg tgcttgctat cacaagtacc tagaaaaatg agaataaaat 240  
 gccagataac tttgtcatgg ctgctatatt ataaatgcaa gccatccata gtgtagtgat 300  
 tgcaatgttt attaacatgt agtaccatct agtattctag tgtttattaa cgattttatat 360  
 ctcttaagcc ctggtgatta acattggcctt aatttggtgtt ttagtttgca taagggtgatt 420  
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 <211> 459  
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 ggggttgagg agacttctct gatgaaccaa tatgtgaaca agaagttcag caatcagtag 180  
 aaggctacga tcggcgcgga tttctctacc aaggaggtgc agttcgagga caggctcttc 240  
 actctgcaaa tatgggacac tgctggccag gaaaggtttc agagtctcgg cgttgcattc 300  
 taccggggag cagattgttg tgccttagtc tatgatgtta attctatgaa atcatttgac 360  
 aacctgaaca actggcgaga agagtttcta attcaggcta gccatcaga tcttgataat 420  
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<210> 33656  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H4

<400> 33656

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tgacaacacc aaatttgagg atgactgccg agctattatt gggactcaat catatgtcct 180  
ctttacttta gataaactga tttataaagt tgtgaagcag cttcaagcta tagcaacaga 240  
tgaaatggac aataagcttc tgcaactata tttatatgaa aaatcaagat ctctctgggag 300  
gttctttgac ctagtttatc attgaa 326

<210> 33657

<211> 322

<212> DNA

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<400> 33657

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gagatcccga tggccgtagc gccgtcgtac cctgctcaag gacatcataa ctgcgcgatag 120  
cgaggtagag aagacttact tgatgaacca atatgtgaac aagaagttca gcattcaaga 180  
catggctaca atcgacacgt atttccctcac caacgaagtg caattcgagg acaggctctt 240  
caactctgaa atatgggaca ctgctggcca gtaaagggtc cagagtctcg gctcagcatt 300  
ctaccgacga gtacattggt ga 322

<210> 33658

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E10

<400> 33658

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gtagctagac actcggacga gtaatcatca gtctattgat cgtgacaaat tgacactgcc 180

gaggttcaga cacacaccgt cgtggcgacc gactgaagcc cagtg 225

<210> 33659

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E11

<400> 33659

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tgcagtttaa cagtgcaggc acatgaggat ccgatgtaat tacgtcatct gcaagctcca 180

tccagatcac acgcactcgg atcgcagtcc caa 213

<210> 33660

<211> 303

<212> DNA

<213> Zea mays

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aaatacaacg aaacgtattc gtgtaaaatg aaattccaat agaataagac cggagtcctt 180

atgtcccggt atggacggcc tgctttaata aaaatactcc gtctggcagc tttaccatga 240

ctcactataa aaacgcctac gatcctgaag taatcagaaa aacgaatttc ctttttggga 300

aaa 303

<210> 33661

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E3

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gacgtactct gcggctacga ggaccgaatg ctctactact agagctccat gaatgcctgc 120  
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 atgttcggtc ttgccggggg tgtcatcaaa aagatactcc gaatggcatc tgcattgattg 240  
 ctactatttg agccgcctac tatatgcacc tatctgatca tgagtgtcga gtctgtcaaa 300  
 atgtatgtcg cctgggggaa aagaaattta agttatatga aatgaatatg ctgttgatgt 360  
 gtcaaaaaaa aatttacttt 380

<210> 33662

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E4

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 cgtccgcctt cggcgaggcc cgcgtgacga tgcgcaagac ggccggcgaag gccaaagccgg 180  
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<210> 33663

<211> 415

<212> DNA

<213> Zea mays

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<400> 33663

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 cgtcaagggc atcaagggcc gcctcaaccg cctcccgctc gcctgtgtcg gcgacatggt 180  
 catggccacc gtaaagaagg gaaagccga cctcaggaag aaagtgatgc ccgccgtcat 240  
 cgtccgccag cgcaagccgt ggcgtcgcaa ggacggtgtc tacatgtact tcgaagataa 300  
 tgctggagtg attgtgaatc ccaagggtga gatgaaaggt tctgcaatca ctggacctat 360  
 cggcaaggag tgtgctgacc tttggcctag gatcgccagt gcagcaaatg ccac 415

<210> 33664  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E8

<400> 33664

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tccctcgccg tgtaccagga cttctgcata gccgacctat ccgtcgccgc caccgcgggc 180
ggctacccgt gcaaccccc gaaggacgtg accgccgacg acttcacta tggcggcctc 240
gccacccccg gcacggcgct gaaaccttc aagatctccc tgggctcggc cgtcgtcacc 300
acgttccccg gcctgaacgg gctgggcata tctgccgcgc ggatggtgat ggtcccgggc 360
ggct 364
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<210> 33665  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E9

<400> 33665

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cccatttcct ccggatagat ttgggtttgt cctgcgtcga ttagtccggc gcccgaaacc 180
gcaccaatcc attcgccgag ggat 204
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<210> 33666  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F10

<400> 33666

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actctgttgg gctttctatt gttccttcta gcttggtatg cacgtactgt ttatgtgtcg 180  
aagacgtgct ggatatagtc ttctatacag tcgtgggtgca tgaagacgcc gtctcacggg 240  
ttcaacg 247

<210> 33667

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F12

<400> 33667

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tggtgaaaga acttcatcaa aagtgtccca aggaaatgga tgaatatgct ggttgcatgt 300  
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<210> 33668

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F4

<400> 33668

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ctaaataaac tacacagtgc catactttac aacaccctga ctgggaaaaa cctatacggg 180  
cccaaa 186

<210> 33669

<211> 381

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F6

<400> 33669

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 acccactgtc cgtgaaggag agtatgtctt tgggtgtcact cacatctttg catccttcaa 180  
 tgacaccttc attcatatca ctgatttgtc tgggagggaa actctggttc ggatcaccgg 240  
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<223> Clone ID: LIB3068-019-Q1-K1-F9

<400> 33670

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 gcaacgtgtt cgatcccttc tccttcgacc tctgggaccc ctttgagggc tttccctgag 180  
 gctccggcag cagcagcagt ctcttccctc cgttcccgag gaccagct 228

<210> 33671  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G10

<400> 33671

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 gggtctctag aagggaactgc aaaagcactg gatcctgagt ttaaagttat tgatagtgc 180

tatccttttg taattgggag actccttgca taccagcc ctgatatgag gaaaatattg 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G11

<400> 33672

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<210> 33673  
 <211> 76  
 <212> DNA  
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<223> Clone ID: LIB3068-019-Q1-K1-G12

<400> 33673

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 <211> 390  
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<223> Clone ID: LIB3068-019-Q1-K1-G2

<400> 33674

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 ctatctgagc ttcgttagca aataagttca gacttcttaa tttactgccc tgctcaagtc 300  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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agc 243

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<211> 100  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-019-Q1-K1-G3  
  
<400> 33676

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<213> Zea mays  
  
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cttttatcat gggagagcag gatatagttg cataaaaaaa aaaattattt aaatttaaaa 120  
tattacaata aataattata actattataa aatataa 157

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-G8  
  
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<210> 33679  
 <211> 111  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-G9  
  
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 <212> DNA  
 <213> Zea mays  
  
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 aaccaacaac taggataagc acaaaaatga aagcttctat aaaaacggat acaccaata 240  
 cgtcgaaact cattgcccaa gggtagagaa agactgtttt cacatcaaaa acaacttata 300

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ta 362

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<211> 328  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-019-Q1-K1-H2  
  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-019-Q1-K1-H3  
  
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<210> 33683  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A9

<400> 33683

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<210> 33684

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B1

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gggctcgctt ggtaccgggg cgtcgcgtcc ggcgcggatg cgggtgtgcac cagggccgac 240  
aaggtgaacg agaagaccgt gcagtgcacg gacccggccg ggcagctttc gtgccctctg 300  
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<210> 33685

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B2

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158

<210> 33686

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B5

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tgctctacct gggcccgtg tccggcgcg ccccgagcta cctgacgggc gagttcccgg 180  
gcgactacgg ctgggacacc gcggggctgt cgggcgaccc ggagacgttc gccaagaacc 240  
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cggagctgct cgcccgaac ggcgtcaagt tcggcgaggc cgtgtgggtc aaggccgggt 360  
cgcagatctt cagcgagggt gggctggact acctcggcaa cccgagcctg atccacgcgc 420  
agagcatcct cggcac 437

<210> 33687

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B6

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aaaataaaat gatgagttac aaaatcaacg agcaatagag tggagggaaa gtataagtca 180  
aaacatatag taattgttat taggtaggca attgatcact tgaggcttag ttggtagacc 240  
ccatgtaccg attgttttga cctggcatag atatatatgt gttatctgta tatcggtttc 300  
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aa 362

<210> 33688



<211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-B8  
  
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 tcctactctt ctcttcttt ctatcgggga tactcatttc ctgctatgca tgcacttctc 180  
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<210> 33689  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-B9  
  
 <400> 33689  
  
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 gaaaaggtgc acgatctcga cgaattactt ctgaataact tcagaaatca tatggaagaa 180  
 ccatagcatt tcgcgattca ttggtaaatt tactttgatt ctctatagac caataatgtg 240  
 agaccattaa cactgttaaa gctaaactgc ttgaagtccg gtcaaaaagg ggtactcttt 300  
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 <211> 233  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-C1  
  
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ttgactcatg catgcataca aattgatcta tactttatcgt tatctgatgg aaggagtgcc 180  
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<210> 33691  
 <211> 113  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C10

<400> 33691

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<210> 33692  
 <211> 149  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C2

<400> 33692

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 ttggctgcaa aaagtgaagt gcgctattg 149

<210> 33693  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C5

<400> 33693

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 cgcacgcaga aggtcgccga caaggtcgcg ctgtgcctgc ccagcgacgg caggtccacg 180  
 tcgggcgaca gcggtcggcg tggccatctt cggcgggcggc ccgctgttct tcgtcccgcc 240  
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agccggtgcc cccgggtact acgtctctc caccggcatc gccgtggagc atgcccgct 360  
 gggccgaccc gccggggcgc tcggcgtggc gctgagcttc acggtcccgt acaccgcgt 420  
 tccggcccga ctggtacgct ccgttcg 447

<210> 33694  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-019-Q1-K1-C6  
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 aacacaacga ctgttctttt gacctctacc aacaactgca tgccatgcca cacggtctac 180  
 acatcgaaca aaaccgcttc ccctaacagc aaacactggt ctagtacact gtacacctct 240  
 gctctacca cagcaaaggg caagggctga ttcaccacag aagcagcaca tcttccctta 300  
 cccatatgga tgttaccact cacaagtttg taccttctct gccttttttg ttcagcctgc 360  
 ttaggctcaa aaattggtga aattggcata tgcatttgaa aagtctcttt gaaccatttt 420  
 cttttgaaa 429

<210> 33695  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-019-Q1-K1-C8  
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 acgacgaggt gtcacacga aactgacct cgttggcctc acctacctac caatggttat 180  
 caaggaggtt cttcggctgc atctccaaa ccctatggtg gtcccacgtg agtcgagaga 240  
 ggattgccaa gttatgggct accacattcc caaaggcacc aaggtgctcg tgaacgcatt 300  
 tgcgatctcc agggattcaa ggtactgtaa caaccctgaa gatttttagcc cacaaagggt 360

tcagaataac aatgtggact acaaaaggac cgattttg 398

<210> 33696  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C9

<400> 33696

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tagatgcttc tcttttcagt cctgattctc ttgagctatg aagcgctgca tcaaattctt 180  
tcggtcgagt gcgatccgct ggaggctcca cagccaccgg tggaataggg gacggtgttc 240  
gcagcgactt gttggttttg attggcgtga ccactgttgt ggtgggtcgt gatgcaaca 299

<210> 33697  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D1

<400> 33697

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aaggaaactg acaaataaaa aagaacatat caaacaaccc tata 104

<210> 33698  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D10

<400> 33698

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gtggaagatc tcagaagtga agacgatttt ccgacaagag cgttggaaaa tattctcaag 120  
acgaaaggga taattgatga gaagaagaaa gatgacgacg atgacgatga agaaagcgag 180  
gctaagaata ggagggttag gtcttcaact gctcaagact ctgacttaga ctgaacctga 240

gatgaagatc gaggactcac cgtttttgca ctttggattt tgtttgtttg tttgttctgt 300  
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<210> 33699  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D11

<400> 33699

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 cggcggggtt tgacctgaag caaaatatgc gttgtctgta ggagagggca ttgccagata 180  
 gcctctgtaa ccttgtactc tagttcctag actaaattaa tttgttatca tgtgtacatc 240  
 agggtaagcg tgatgctgtc ttaagagatc caagtgatac caatttaaaa 290

<210> 33700  
 <211> 107  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A8

<400> 33700

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 gaacctataa aataccagtt taactgttta aggagatttg cctcatt 107

<210> 33701  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D12

<400> 33701

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 ttcgaatgaa taaattgttg cttactagaa tgaatacggg cggaattggc cattattctg 120  
 tagtatcact gtcaccaat gggatataaa aaattaagtc agagtgggtga tgaccaccct 180

atcggcatta tatgaagaag agactgattc aatgggtctct gctgagaaaa ttcccgaacc 240  
ccatcaata 249

<210> 33702  
<211> 385  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D5

<400> 33702

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cccacgcgtc cgcccacgcg tccgcccacg cgcccgccca cgcgttcgcg gacgcgtggg 120  
cggacgcgtg ggcgcgctcg aaagcttgcg cgggtggcgtg ctcatggtcg cgcgcatagt 180  
ggtatgccaa aagaggatgc tgggaaagtc tgcacagtgg agactgttat gtcattctgt 240  
atacgtatca tttgggacgac ttgaaagaag aatactatct tagctactga attgggaagg 300  
atagcttggt ggactatcaa gtgtcggcat cttaaatgac taatacaatg gggaattcat 360  
tggaaggacg ggctgttggt ggctcg 385

<210> 33703  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D6

<400> 33703

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gctggaaaca agcttgccat gcaggagttc atgacacctc caactgggtgc ctccctcgttc 120  
aaggaggcca tgaagatggg agttgaggtg taccacaacc tgaagagcat aatcaagaag 180  
aagtacggtc aggatgcgac aaatgttggg gatgaaggtg gttttgcacc taacattcag 240  
gaaaacatag aaggccttga actattgaag gcagccatag aaaaggctgg ctacactgga 300  
aagggtgtca ttggaatgga tgttgctgct tctgagttct tcggtgagaa agacaagact 360  
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<210> 33704

<211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-D7  
  
 <400> 33704  
  
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 acgttcacta gctctcggag gtcgcatgga catggaaggt agaggcgatg ccaacgttcg 240  
 tgctggtcaa ggatgggaag gaggtaggcc gcgtgattgg ggctaagaag gacgagcttg 300  
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<210> 33705  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-F9  
  
 <400> 33705  
  
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 aaaggaaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaattaaa aaaataaaaa aaaaaaaaaa atatataata aaaaaaaaca ataaaattag 180  
 acaatttttt aataatatac aa 202

<210> 33706  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-G2  
  
 <400> 33706  
  
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acttcacctt taaaattctc ttattcgatt ttcggtgcgca ggctcccact tatectactc 180  
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ctgattccgt caaatccatc tccttggtc tcgcctcgat ggattgtata catgcacact 300  
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<210> 33707

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G5

<400> 33707

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caatggccaa cagaactgtg attgtagaca ataacacctg gaacaacact catatagcaa 180  
cagttggtac agcaatgtcg tccccagaaa aagcagcttg ggaaatcttc aattcttttag 240  
atgtcaaata tgtgcttggt gtctttggag gacttggttg ataccctagc gatgatatca 300  
ataagttcct ttggatggta cgaataggag gtggtgtggt ccctcacatt aaggagccag 360  
attatcttag ggacgggtcaa tatcgcgctg atgctcaagc tactccaact atgctgaatt 420  
gcctcatgta caaacctttg tac 443

<210> 33708

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G6

<400> 33708

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aatctactgg ccgctccata ttcaactact ctactctgta acacccttgc ctttccttac 180  
ttaatcccat ttcaacccat ccgcctttcg ccagccaaca gcaataacta aaatacccat 240  
tcctttcccc atttcaaaca ttttcgcagc ctttatagca catgctactc accctatcgc 300



taatcttcat gcgcggctct cctttccact aacttcagct tctccattac actatgtaac 360  
gccctctgac cctctccttt accttcatta ctccctttt tccccacct 409

<210> 33709  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G8

<400> 33709

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catactaaaa aaataaaaaa taatttactt tcaactaaat ggaattaaat tgccgttctt 180  
tttacatcca taattaatgg ttaaatacctg gagtttccaa acttaattgc cttgcaatac 240  
atttcatttt t 251

<210> 33710  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H10

<400> 33710

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cagcatcgga ggggtcgggtg aggagggcga tgggtgtccc gctggtgaag ctcggtctgc 240  
tcggttccg gacgtgagc aagcccatcg cggtcgcct caagtacaac gccggcatcc 300  
acccaagtt ccgcggtctc atcatcgga tcgcgcaggc aaaccatcgt ttcacgacaa 360  
atatgcagag gcgactttac ggacgtgcga ctgacattca cattcgcccc ctgaatgagg 420  
agaaagctat tcaagct 437

<210> 33711  
<211> 439  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H11

<400> 33711

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cgaggagagc aaaaatctgc gtcgccgcgc acctacgctc acggaacacg ccgtcatatg 120

agtggagaga gaaccccgcg cctgctcctt catgagctcc gtacatggag gctagagcgt 180

cggcagtatc ctaggggtca gtgaggatgg cgatggtgct acagatggtg aagctcggct 240

cgctcgcgtt cctgacgctg agcatgcccc tcaccgcacg tctcaagtac aactccggca 300

tacaccccaa gttccgcagt ctcatcatcg acatctggca tgcaaaccat cgtattacga 360

caaatatgca gaggggactt tacggacgtg cgaatgacat tcacattcgg tccctgaatg 420

acgagaaagc tattcaagc 439

<210> 33712

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H2

<400> 33712

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ccacctctac cctcgcctcg ctgcgtcttt ctgcgcagtt tccccggccg ccgcctcggc 180

cgccccggcg tccgcctcgg ccgccccggc gtccgccaag gtcgccgacg gcatcgtgcg 240

cgtcctcgcc atcgatctcg agggggcgcg ccgcgaggtc gtcggcctct ccgggcagac 300

actcctccgc gcgtcgcga acgaggagct catcgagccg gcctnccacc gnctcgagga 360

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<210> 33713

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H3

<400> 33713

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cgcctccctc cgcttctctc ggtcgccgag ctgcgcggct gcatcgcgcg cgaacgccgt 180  
ctagcaggca cggaagaagt tcgactccgc ttgatcctgc gggggaagac gctccgcac 240  
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aagcctcctg ttaatcatct tcttgatgat gacgttgagg acgaagaaga ggatgaactg 360  
aagttcagaa taccacanac gacaaccttg tggaagagga aatntntat gtttcttcga 420  
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<210> 33714

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H5

<400> 33714

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gaggggatcc agaccatgac ctactgctgc ggtaacttcg gtgatgacaa gggtgccagg 240  
gccattgtca aagccttctc acacataaaa tgcactgtgc tggcccctcc caagatcatt 300  
gccaccaaac cggtcgatgg agcgaagact aactatgtcg aaggtgacat gttcagtttc 360  
attccacctg ctcaaactgt cgtgctaaag ctagtgtgc accacctgac ctatgaggag 420  
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<210> 33715

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H7

<400> 33715

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<210> 33716

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H9

<400> 33716

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tataaaaaaa actaaccttc ttacacatt ctttctacct tattacctct atatatcttc 180  
acctttaatt taaaaaaatt gtcctatatt ttacaatttt tttatctcat aaattccttt 240  
tctttcaaaa attttttttt tttcttttta tctaattttt ttcctttttc ttacatctt 300  
ttttgatcat aaattaatat tccttcctat cattttcttca acctcttttt ttaatttatt 360  
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<210> 33717

<211> 210

<212> DNA

<213> Zea mays

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<400> 33717

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tgcttgcttc cctgccgtcg tggctgtcga cgaggagcac ggccaccaca gccaccagct 180  
gaagggagga gcgcatgatg aggctgagaa 210

<210> 33718

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F5

<400> 33718

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cctccgactc tgtatttcaa ataccatttt ataaataatg cagtctacag tgtaaaacag 180  
tgatttacac gacc 194

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<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-019-Q1-K1-A12

<400> 33719

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gcgaccgcga gcccctgacc ccggagcagc ggtacatcct gtcgtgggat gcctgcaccc 180  
agctgggtcat ggagcactcc gagctcgaca aggtcctgaa tggcgacagc 230

<210> 33720

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A2

<400> 33720

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cacagctcaa ggtcagaagc tcgcagatga atacgggatc aagtttttcg agacgagtgc 180  
gaaaacgaac cgaaatgtgg agcaggtatt cttcgccatg gcaagggacg tgaagcaaag 240  
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ccccgaccag gctgacgcaa ccttctcgcg gc 332

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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-A3  
  
 <400> 33721  
  
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 cacagctca 129

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 <213> Zea mays  
  
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 ggccgtcgcg ctctctctcg gcaacctgcy ccaatgatga cgcctgcctg tctcctagac 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-019-Q1-K1-A7  
  
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 aggggtagtc tcacggcctg aattcgcgga ggcgcgctcg acggcaaggc cgccacatct 180

agccccgatcg cctgcgcact actgctgccg tagacgttct tggccgctgc catctgtgcg 240  
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 gacgagag 308

<210> 33724  
 <211> 190  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D1

<400> 33724

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 ttcttcatct catatttcga taaatcaaac aatctcaatt ttgatctaata atatatacac 180  
 acaacacatt 190

<210> 33725  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D10

<400> 33725

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 tcacgtgga ggatcatgact gaccgggtca tcctcccctc cggccacacc ttcgagcgcc 180  
 gcatcatcca gagctggctc gacggggggc acctcacctg ccccgtcacc aacctccgc 240  
 tgccgcccctc cccgcgcctc atcccacacc acgcgtgcg ccgcctcata gccgtcgtct 300  
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 cgggtgctcgc ggctgct 377

<210> 33726  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D11

<400> 33726

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ctctttctcaa tacattcaat aatcatacta tacatgatct atctcttaca ttatcacaca 180  
tgatcaacat catacatctc tacaaactcc ttttg 215

<210> 33727

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D12

<400> 33727

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ccttttgcta tctattattc ttacttacia gcgttcattc ataaatcatc acactttatc 120  
ttcattccac ttacttttca accaatctcg attaccaatt ctgtgaatca a 171

<210> 33728

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D2

<400> 33728

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cggaggggat gaacgtgaag gaggagtgcc agcgctgggt catggagatg aagtggaaga 180  
agggtgcaccg cttcgtgggtg tacaagatcg acgagcggtc gcgcgccgtg ctggtggaca 240  
agggtggcgcg ccccggggaa ggggtacaacg agctcgtggc gcgcgtgccg ggcgacgact 300  
gccgctacgc cgtcttcgac ttcgacttcg tcaactgttg caactgccag aagagcaaga 360  
tcttcttcat cgctcgtgca cggcgggcgt cgaggatcag ggccaagatc ctgtacgcga 420  
catcg 425



<210> 33729  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D3

<400> 33729

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caggcatgat taccgtaaag gat 143

<210> 33730  
<211> 164  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D4

<400> 33730

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cacttgcat caacgtctac cacttatacc acacctcttt catc 164

<210> 33731  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D6

<400> 33731

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ttttttttta tttttttttt ttttttttat ttttttttta tttatatatt tttttttatt 180  
ttataaaaaa tgttgatgta cattaaataa taaaaattta acaccactct atttaaaaaa 240  
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aataataaaa a 311

<210> 33732  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 33732

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ggagcggctg gtggccgagg tccgcggcgc cgtggccgac gccggcggca aggtcaccct 120
cgcggcgggtg gagaggatgg agctggccaa gtcgggtggtg tgggagtcgc tgcgcctgga 180
cccgcccgctc aagttccagt acgggcacgc caagaaggac ctgctggtgg agagccacga 240
cgcggtgttc cacgtgagga agggcgagat gctgatcggc taccatccgt gcgccaccaa 300
ggacccacgc gtgttcggcg acaccgtcgg tgacttcgag cccgaccgct ttctcggcag 360
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<210> 33733  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-E10  
  
 <400> 33733

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tcaggagaca ccgagtgcc a tgagagatgc aacgccgtgg acggggcgga gagcttaagt 120
acgcagcgcg tgggccaacc aaagcctcag aggtgcactc aaactcatct gcaagcccgg 180
ggggagaagc aaaatgggac ctgcggaacc tgaaaagatc ctgaagacac cgggcatcaa 240
ctgatcatct tgttttaga tcgtagtaat gtgccttgct actgcacctc aacaaaaatt 300
ttaagagctc aattgctagt tacagtg 327
  
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<210> 33734  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-E12

<400> 33734

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aatatcaatg cctggataga ccagaaatca taacacgcta ctaaccaagc agtaacaaca 120  
agaaccatta gcaagcaagc attatgactt aaatggacta acacataacc aagtcacaca 180  
tcatgctcac atcctcttta ctgataacaa atcaccacta ccaatcgggt gcataacta 240  
caaccttcca cgcacgtaca atcactatcg cgttacaaac aatcagtatc ctaaacctaa 300  
cctttcgaac cactttctaa acccaattca cacagcttat cgacgcttaa acaatcaaac 360  
acttcgacaa 370

<210> 33735

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E2

<400> 33735

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tagttgagat gatagtatag taaatgtacc atactctggt ttactataa atatacttca 180  
atacttacat acattttaa tttcaaaacg actataacga actacaccat ccatagtgac 240  
aactcact actac 255

<210> 33736

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E6

<400> 33736

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acgtgaccac aactttgcaa cgacttgtgt ctgccgagtc cccaagcatc tgagggagga 180  
gcaagtgata gaatgtgtcc attgaggctg caggggtgtg gccagcgggtg actaatcttg 240

tcagttgtca tcatgttggt gggctcacga ctcatcatca ccatacctaac cacattaagg 300  
cttttcggtt agctctcaat ccatgtggat tgagtaggat tggatgagtt tgaatcccaa 360  
acaagtcaaa ctttttaaga atttttttca atctcatcca atccatgtgt attgggaata 420  
accgaacaag gccttagatg tctcgtgagc atg 453

<210> 33737  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-018-Q1-K1-F1  
<400> 33737

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tcgccatcgt cggtcacgac ggcagcgttt gggcgcagtc cgagagcttc cccgagttaa 180  
agcctgacga ggttgctggt atcataaagg actttgatga acctggtact cttgcaccaa 240  
ctggtctttt cgttggaggt acaaagtaca tggatgatcca aggtgaacct ggagttgtca 300  
tccgaggaaa gaagggcact gcgggcatta ctatcaagaa aaccggcatg tccttgatta 360  
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gcgattacct gatcg 435

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<211> 443  
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<213> Zea mays  
<223> Clone ID: LIB3068-018-Q1-K1-F10  
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accgagaagg gcagggtcgg catcgactgg tccgacgcgc ccttcgtcgt ctctaccgc 180  
agctactacg ccagcgctg cgtcagcggc ggcgcgtccc gggcagccgg cagcggcggg 240  
tggatgaaca ggcagcttga cagcggcag tggggcaccg tcaggtgggc ggagcgcaac 300

ttcatgcgct acaactactg ccaggatggg tggaggttcc cgcaaggcct ccccgccgag 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-F11  
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 caccgagaag ggcatggtag gcatcatact ggtccgacgc gcccttcgtc gtctcctacc 180  
 gcagctacta cgccagcgcc tgcgttagcg gcggagcgtg ccgtgcagcc ggcagcgggc 240  
 gctggatgaa caggcagctt gacagtgccg agtggggcac cgtcaggtgg gcggagcgca 300  
 acttcatgcg ctacaactac tgccaggatg ggtggagggt accgcaaggc ctgccccccc 360  
 agtgagcacg aactgatat gcgttagtcg gctaactagt tcgagatcca gattgt 416

<210> 33740  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-C8  
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 acgccctaac tctagatcgc ga 202

<210> 33741  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F12

<400> 33741

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actagatcca ccatacaagt gaatcgctct gcatcatact ggtccgaccc gctctattct 180  
cgtctactac cgcatatact acgccagcgc ctgcattatc cgcggcgctt tccaagcagt 240  
cggcatctgc ccgcggatga acaagcaact tgacagttcc aagtgtggca ccgtccgatg 300  
gaactgttct caacttta 318

<210> 33742

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F2

<400> 33742

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gtgaattgaa agactgccaa attaaggcca cttgtgttgc tttgattgta cggagagatc 180  
atgctgacgt gtacgtacgt gtaccgagat ccgtttcaaa tgcattgctt gattgtacag 240  
agagtggctc gtttggcata tagctccgct acatgattct ctaatagggt aattccgtgt 300  
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<210> 33743

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F4

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gcttgcgaga tcgcgcgcct gccggatgac ctctgtcgg cggcgctcgg ccggacgggg 180

ccgctggacg cctgccgcgc cgccgcggtc tcgccggcct ttccgcgccg gcccgacgcc 240  
gacgccgtct ggtccagctt cctgccgccc gacctgcccc cgctcgccga tggggagctc 300  
cccgccgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360  
cccgtcctcc tcgccgacgg cctcacgagc atgtggctgg acagggtcac cgctcgccaag 420  
tgctacatgc tgtccgccag gaagctgacc atcatatg 458

<210> 33744  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A1

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gctgatagca gaggcaaaga agaagagagt cgccgccgcc gccgccgagg agaagaaggt 180  
gcaggacaac ttctgctcga cgctgtgcga aggcaggaag gggatggacc tgggtggtgtg 240  
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caagggcaag tgcaccgagc agaagggca 329

<210> 33745  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A11

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tattacctaa atccaactca ctctacctca actttcacc ctaaccttc aaaatccaca 180  
actcttcta actaatcgc ccaataccat atactctctt ctaccgctat ccttataaat 240  
cattactcct aacctatccc cctttcaaac aaccatacac cc 282

<210> 33746  
 <211> 193  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-A12  
  
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 cttatgaccc ata 193

<210> 33747  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-018-Q1-K1-A2  
  
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 ctgtaccact tgcattggaa actctgggtga tctcgatgaa tccgtatcaa ctgccattac 180  
 aaaaaatgat gttggtgctg ctgctgctat gtcaggtaac cgtaacttct agggctcgtgt 240  
 gcacccttta actagggcta actatcttgc ttcaccacct cttgctgtcg cttatgcact 300  
 tgctggaact gctgatattg attgtgagaa agagccatt ggatttggaaggatggcaa 360  
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 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-018-Q1-K1-A3  
  
 <400> 33748



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 ggtgggagag accaaggacg cgcacggcgt gaagcagggt tacgtgtggc acgccatggc 120  
 cgggtactgg ggcggcgtga cgtcgacngc cgggacggcc attgaacgct acgagccggc 180  
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<210> 33749  
 <211> 454  
 <212> DNA  
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<223> Clone ID: LIB3068-018-Q1-K1-A5

<400> 33749

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 gtcattctgc agaagcagaa gtcggcgctg cgtgagagcg tacaagaaga agaagctgct 180  
 cccgctcgac ctgcgtccca agaagaccgg cgccatccgc acgcgcctca ccaagcacca 240  
 gctctccttg aagaccgata gggaaaagaa gcgtgagaag tatttcccca tgatgaagta 300  
 cgttatcaag gcctatatca gtgaaagaac atttatcctg tcaagttttg ctcaaaagct 360  
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<223> unsure at all n locations  
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tggtcccat cgtgcggctt gaggaggtag ccgtcaccac cggcgaggag gacgaggacg 240  
 tcctgctcga catgaaggcg aagctgtacc gattcgacaa agacggtaac caatggaagg 300  
 aacggggcac gggcgctgtc aagcttctca agcacaagca gaccggcaag gtccgcctag 360  
 tcatgcgcca ggctaaaacg ctttaagatct gcgcgaacca cctcgtggcc ttcaccacga 420  
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 tatcaacacg aggaccgcct gactagctaa caaactgatg attaacgagc aagcttgaag 180  
 agccagaatc agcgaggagg cgcggtacgt gccggtgctc aagttgctgt accagtccat 240  
 gactcctgct acagctatga gctctacgac agcagaggca ctgactgaag ctgcatcgta 300  
 cgagccgtac gaggtgagcc acgcgtgcct gtgctgctcg ccgtcgtcgt cgtcgatcaa 360  
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<210> 33752  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tctggaaacg actgcatcac attccaacgg aacatcctat agttatccat tgcagtgcag 180  
 gaatcggaag gactggtact tacatcaciaa tccatactac aattgagcga attcttcttg 240  
 gagataaaag ctcttacgat cttgccaaaa ctgtaaagaa ttttagatcc caacgacctg 300

ngatgggtcca aacagaggaa caatacaagt tctgctacag ggcaattgct gacgagctga 360  
aagacctgct aaattcagat cattgaggtg ggtcacatga gacggacagc aacgctgnta 420  
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<210> 33753

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B4

<400> 33753

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actcacaact acagcttcac attacaacca aacatactat agtcatccat tatacttcac 180  
gaattgtaaa cactcaaact tacatcacia tcaatactaa aatcaaccca attattaaag 240  
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<210> 33754

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B5

<400> 33754

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tggtgtgtct cgtactctcg gtgtgaagaa aagacgcgtg ccttttcttc tcgctgcaag 120  
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<210> 33755

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B6

<400> 33755

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aaggaaggca acttgtccgt ccagtcagga tgtgcaactg caacgtcaag tccgcgggcg 180  
tggcccagat cgacggccgt ccggtgctgc agccggcgga caacgcgctg gcggcatcag 240  
agcctgacgc ctaccaaccg ctgaataagt cccttcagaa gtcactctcc atgccggcct 300  
actacgacag caatgcctcc gcaggcgctc gacctgcgcc agacgagaac actaccgta 360  
cagcggctaa ttcgtct 377

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<211> 313  
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<213> Zea mays  
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<400> 33756

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accctttttt ttattttcct tctctttaaa ttctctttct tttttcttct tccatctctt 240  
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atcttttctt ttt 313

<210> 33757  
<211> 101  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-018-Q1-K1-C12  
<400> 33757

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<210> 33758  
<211> 458

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-C3  
  
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 cagaagggtgc cacctaaaga tgatagccag aaagctgcta ggaagagcac cccaagtgtc 120  
 ccctcagatg acgctgacaa agcagctaag aagcatattc ctactgtaaa gagaacatct 180  
 ggggtcttag gaaactcgaa tggtataaat ctagtgaaga ttctctccaa ccgcaaaaaa 240  
 ctaacagata ttagcacttc atggacatca ctccctccat cacttgccaa actaggaaag 300  
 gagcttctta agtacagga atcggcacia atagctgtgt ctgaagccat gcaagaagct 360  
 tccgctgcag agagcttgct cagatgtttg agctcgtacg cggaggtgag ctccacggcg 420  
 gatgagcaca acccgagcc agccgtagag aagttctt 458

<210> 33759  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-H9  
  
 <400> 33759  
  
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 tatgatgtgt tcgttgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa ataaaataaa caaacaaact aaaaaagggc tgctgtttta 240  
 aagcttctta gtttaattca ctgtcattcg atatacaact tcttgaatgg gtaaacctat 300  
 gtcaaaccg catgtcaa 318

<210> 33760  
 <211> 461  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-C4  
  
 <400> 33760

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 aagcagagat agatctccag ccaatgatca cagccgccat ggcctttgga gatacttcac 180  
 gtcttggtga catgcaaatt gggaggtggt tcatgaccaa agacaacgcc ctgatgaaag 240  
 atagcacggt gaatgttggt gcaggtaagg taaaacagga ggtgcactta aagctacaga 300  
 acgtagaatc aggtgagttg gagttggagc tagaatgggt tccgatcctc tagactaatg 360  
 ataactcccc tgatctttgt ctaaaaatct atactcaaga tgcacgatg tttccaagct 420  
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<210> 33761  
 <211> 99  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-C5  
 <400> 33761

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 ggggtgtggca attatatggg agtggggccaa aattttattc 99

<210> 33762  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-C6  
 <400> 33762

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 ccagcgccat gtggtggtac atgtgggtgc tgtggcccgt ggcgtggctg tccatggcgc 180  
 tcgctgtggc ctacgggtcc tccgcgttcg tcgtcgagag gatcaaaactc gggaagctga 240  
 ggatgcaaac gtgggcagtg ccaagataca acttccagta cggcctgagc tgggagagag 300  
 aatcgatcaa cggcctcatc gaaagggcga tactagatgc tgatgcgaga ggtgtcaagg 360  
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<210> 33763  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-018-Q1-K1-C7  
  
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 cgtccgtcct ctccatccaa tggggggttg ccttattgcg tgcacgctag ctagctgctt 180  
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<210> 33764  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-F5  
  
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 ggggcgaagt gggagggggg ttgtgtcgtg taatttttga tgccactatt gtgcatgtat 360  
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 tactac 426

<210> 33765  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-F6

<400> 33765

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gcttaagaag gaatgtgttg aggcaatgga gactcaactc aagagggagg agttccaaga 120

tgaggagatg cctgatgtca ggaaactgga catccgaaac ttctgtagg cctgatcgac 180

gataaccttt gaggcattgc aaatcaccca gccacactgt gattgttttt cttttggttt 240

tggtttcaag ttgatcgggtg ctgtaagcta cacctatgaa tgctgctcct tcctttcttt 300

gtaataaaaa aaactgcacc gaggtacaca aacacagtca accgttgagt tgagttgaat 360

ttctct 366

<210> 33766

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F7

<400> 33766

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cgaggctatc attctcgtcc tcagactgga cattgctggc tagaccacca tactatatac 180

actgcacatg ggagaagtcc tcttcacgat cccgacaatt ggattcaacy attatactgt 240

gcagtacaac aacatcaagg ctcaagtatg ggatcttgaa ggccaaacat gcattaagcc 300

atactggcag tgctactttc caaacactca ggctatcata tatcgttgat gatgcaagcy 360

atacatatag gcttgtaac 379

<210> 33767

<211> 420

<212> DNA

<213> Zea mays

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<400> 33767

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aaagaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120



aaaaaaaagg gcaacctttt taaagaatca aagtttactt actcagacat ccaacttaaa 180  
 agcttttata taggataact aaattttaaat tcaactggcac gatttttaaaa acttcggaat 240  
 tgaaaaaacc ttggctttta caaacttaat ggccttgaaa aaaatccctt ttttgcaaat 300  
 tggctttttt tccaaaaagc ccaatacgaa tggcctttcc aaattttgcc aaacccaaat 360  
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<210> 33768

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G1

<400> 33768

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gaggtc 66

<210> 33769

<211> 442

<212> DNA

<213> Zea mays

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<400> 33769

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aaccacgca ggtccagggc ggcgctggcc aagggcgacg agatgttcgt cgcgatgccg 180

gacgggaagt ggaagctcca cacggtgtcg gcgcgctcga acaagcgcgg cgagatcgtg 240

ctgoggatca agaagacgaa cctcgtcatg gccttctccc acgcaaaaga aagcgtgac 300

cacgacgtgc agccgtgctc cccggagaag ccgagccccc acgagggcgc gacataccca 360

gtggaggtct ccacgaacaa gggcaagggtg gagctccgca cggacgacta cggcgtctac 420

aagcgggtggg ttgcgacgct ga 442

<210> 33770

<211> 441

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 33770  
  
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 tttgtggact acaatgagcc ttcaacagag agaataact catcttgagc tgaaccttga 360  
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 aatgaaatca gattggcatg c 441

<210> 33771  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-G2  
  
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<210> 33772  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 33773  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tgctaagaga aagcttgga ctcacaagag ggcaaagaag aagagagagg agatggccgg 360  
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<210> 33774  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G5

<400> 33774

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gtgtcaaccg acaagaacag gaactacgct gtcctggcag gcacaattgc tgctctgagt 240  
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<210> 33775

<211> 433

<212> DNA

<213> Zea mays

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<400> 33775

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atgtttgtgg actacaatga gcactacatc agagagaata tactcatatt gagctgaacc 360  
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<210> 33776

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H10

<400> 33776

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tctttataag aatattgtcc tgtctggagg ctgcactatg ttcaaagatt tccacaggag 180  
gttacagcgg gacctaaaga agatagtgga tgcacgggtc cgtgcatcta atagccggct 240  
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gagatatgcg gtatggtttg gtggctctgt gcttgcttca actgccgaat tctacgaggc 360  
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<210> 33777

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H11

<400> 33777

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 tttgtttcta atttttaaat aggtcttgac ctgccacctc caccttctaa tatttaaata 360  
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<210> 33778

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F4

<400> 33778

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 tgtgtacgtg tgtactgtct gatggagtgt gagaagtact gtgtgtatgt ggtatggatc 180  
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 tgcctcc 247

<210> 33779

<211> 198  
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 <213> Zea mays  
  
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 ccaatgattt tgcctatggt tctaacaata gcagaatctc aggataaagg ggattttgaa 180  
 cttgcaacac tgectgcgct tgttccagt tttacttcag catcaggtga aactctactt 240  
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 catattcttc caatgctggt tcgggcttat gatgacaatg atccccggt 349

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 <212> DNA  
 <213> Zea mays  
  
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tattttcaca ccgtcttctc tcttaaacc cttccgttac ccattctact ccccttccaa 240  
cacttcccct tt 252

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<211> 269  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-017-Q1-K1-C4  
  
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ctcctaattt ctaaaagatc cataagacag actttcactg cttctattcc cacttcaa at 180  
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atattaccac accttcttta tcttttaac 269

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<211> 450  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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cggtctgtgc tctgcgcgtc agggcgccat gcgctcgcgc ttgcgcttgg gccccctcgc 180  
agcgaccgca gcaaggggca ctgcgcagcc tcaagccttg cgcctcactg gcaccacaag 240  
ctcctctgtg gcgcgcggag tcggatgccg cgggggggtg tgccggcgcc ggcgatgtca 300  
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gnctcttctg caactcacca gggggatccc 450

<210> 33784  
<211> 153

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C8

<400> 33784

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 atagaaaaaa tataaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa acaaacaaat 120  
 aaaaacaatt atacaaaaat tcaaaaaatt caa 153

<210> 33785  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D10

<400> 33785

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 ataaaaagga gaacaaatgc cggttgataaa aaggagaaca aactgttcct ccagggttctg 180  
 cttgcatttt ctccatcaaa gaatatcaaa acatttgctg ttgtattccc aggtattggg 240  
 ggaagcatgt ttaaccaatc cgcagacgcg aagagtccat ctacctctga taatagaaat 300  
 caaaacgaca tgcttctctc gaccaaagcg gccgagaagc cactaaacgg tactgcgaca 360  
 gagcagcagc ctgcctacg gacgcttggg tccctcacga cacggacggg cagcaccagt 420  
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<210> 33786  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D11

<400> 33786

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 ctctacctc acgcccctgt cactgaggtg cgccgtggag cttggcatcc ccacggcgat 180



ctaccgccat ggcggggctg cctcagccgc tgagctggtc acggcgctgt ctctccccta 240  
 cactaagctg ccgttcctcc gccgtctgct gctgctcctc gccgcgtcgg gcgtgttcac 300  
 cgtcgacaag cagagcacgg acgaggagcg gtaccgcata agccacgtgt cctacctact 360  
 ggtggacggc atccctcacg aggaccacat gaaccacacc gatctgggtgc tcacctgcac 420  
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<210> 33787

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D12

<400> 33787

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 gccccctgtt ccattctatc tgtgtgcgac ttttgtttgt gctgtgtcat ctattctatc 120  
 aatccatcta tgctatcctc tat 143

<210> 33788

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D2

<400> 33788

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 ggagatcgcc gaggggggtga aaaacctcac cgttaccgga gatgcggcgg cttcaggcgg 180  
 agagggggcag aggaggggcg gcggcggcag cagcaaccgc atccaggtgt ccaacaccaa 240  
 gaagcccctc ttcttctacg tcaacctcgc caagaagtat atgcaacagc acgacgatgt 300  
 agagctatcc gctcttggtg tggccatagc aacagttgtg accgtggcag aaattctgaa 360  
 gaacaatgga ttgcccgtg aaaagaaaat taagacctct actggtgaaa taaacgcag 419

<210> 33789

<211> 223

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-D3  
  
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 ctacactcaa tcatactat cctacaacta acctttctca caactctcta atcccatatc 180  
 acattcccta tattttaacg aacaatccaa cacttcctta att 223

<210> 33790  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-E10  
  
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 attggtgaca ttcttctttt cctcccagc caacggggag gctgtacatt gtgtgctgtg 180  
 cttggtgaca agctgagacc tccggcgtat tctttgattc gatcaccccc ctgctcgcc 240  
 atcccattgt ttacgtagag aagaggaacc gtggagcttt ccacgcgga ttgtgaagcc 300  
 gctcttgtag acaggcttcc attcaatgtg agaagcttcc cccctccttg acagatctcc 360  
 gtgtttaga cctgtagcca cctgtaagat atgtgatgat gtccaacaaa caactctgcc 420  
 agaccactgg ctagtcga 438

<210> 33791  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-E11  
  
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catgctctcc tcctacgcac cggatgatctc ttctgcgaag gccttccacg agcagctgtc 180  
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 acggcacggc aagtacatgg cttgctgcct gatgtaccgc ggcgacgtgg tgcccaagga 300  
 cgtgaacgcc gcggtggcca ccatcaagac gaagcgcacc atccagttcg tggactggtg 360  
 cccgacgggg ttcaagtgcg gcatcaacta ccatgcgcca acagtgggtg cgggtgccga 420  
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<210> 33792

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E3

<400> 33792

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 ttctgcagct gctgggtgtg agatgggtggc tgcacgccct tgcatttcgg cctcgccagg 180  
 aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta ccactgctac 240  
 attcccaaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg ttgttgtaag 300  
 agcaatatcg gaagagtgtg gcccgcaagg gcttcccatc gatctcagag gtaaaagggc 360  
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<210> 33793

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-E4

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 gcgcggggct gctcggcggg gcttgccggg cccggcgcgc agcaaggcgt gtggagcatc 120  
 atcaccggg ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180

gcctttctaca cctacgacgc cttcatcgag gccgncagca agttccccgg cttcgggcacc 240  
accggcgacg agcagacgcg cangcgggag ctgcgcgnc tcttcggcca gacgtccac 300  
gaaaccaccg gtggatggg 319

<210> 33794

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-E5

<400> 33794

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tgtagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca gcctttctcat 120  
cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180  
ccgtggtgga gaccccgccg ccggccgtcg tgcccgagga gtctgcccc gccgaggccg 240  
aggccgaagc cgaggctgct gtcctgctg atcccgagga gttccccgcg gccgagcagc 300  
aggcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc gtcgcggccg 360  
aaccggccgn cgaggcggag gctgctgctc ctgctggtcc cgaggagact cctgcggctcg 420  
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<210> 33795

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E7

<400> 33795

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gatcaaggca ccgtcgggtg tcagtgtgcg caacatcggg aagactctcg tatccaggac 120  
acagggtacc aggattgctt ctgagggtct gaagcacaga gtctttgagg tttgcctagc 180  
tgatcttcag ggtgacgagg atcaagctta caggaaaatc aggtccgtg ctgaagatgt 240  
gcagggcagg aatgtgctca caaacttttg gggtatgaat tttaccactg ataaattgag 300  
atccctagtg aagaagtggc agacattaat cgaagcccat gttgatgtca agacaaccga 360

caactacatg ttgcgtttgt tctgcatcgg cttcaccaag aggcgcccaa acc 413

<210> 33796

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F10

<400> 33796

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ccatgaacct cgcccgctcc ttccggccccg ccgtcgccgc gggcaacttc gccggaaact 180

gggtctactg ggtcggccccg ctcgtcggcg ggggctcgc tggcctcgtc tacggcgacg 240

tcttcacatg cggctctac cagcaggctg cggaccagga ctacgcctaa tttattcacc 300

acaccatcgt ctccgctttg gatgaatgga ttcaaaccga tcgtcgtttg cttttgctcc 360

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<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C2

<400> 33797

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acctacatta gctcttgac atattccggc cgagccaggc tccccacctg acaatgtctt 120

ccgtccggat cgccccggt agtcctttcc ttgtaaccaa aacgacgctc ggtgccccgc 180

ttgcgaccca ctgaataagt ccataccgt taaaagtagt gatatttcac ttgcgcctt 240

acgtcccac ttatcctaca cctctc 266

<210> 33798

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
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cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg atgggcgact 180  
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ccaccctact atggacgagg acccatacag ctaactcata agtacaacta caggctcgcc 300  
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<210> 33799  
<211> 207  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cgtccgtgtc cggctcttcta ctggcaccgg cttcaagaca agcgcgcgtg tcgttccact 180  
cggcgccatc gacagcacgg ctgtcca 207

<210> 33800  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A11

<400> 33800

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ggtgggtaca acaagtcggg cggcgatgac gactacggcc gcagcggcgg cgatgggtac 240  
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 ggcgggtaca acaagtcggg agacgacggc tacgacagcg ggtacaacag atcgggcacc 420  
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<210> 33801  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A12

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<210> 33802  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A2

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 gccagcaagg aggctctcc atctcctccg ggaaggctgt gcagcaatgg agaagtataa 180  
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tagttcaagc tcataccttg agcaagccag gggctacacg tcttcccctc tagcagctct 300  
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atctcctgta gc 372

<210> 33803  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-017-Q1-K1-A3  
<400> 33803

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tgaaaccaat gcaaaactccc tttttcatga gaaaggaaac tatggcaaaa tgtgcccagt 120  
tggcccagtt tgatgaggag ctttaciaag ttacaggtga tggatgaagac aaatatctca 180  
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aacttocaat caaatatgct gggactacca catgcttccg gaaggaagct ggttcgcatg 300  
gaagggacac agctggatc ttcagagtcc accagtttga aaaaatcgaa caattctgca 360  
ttacaagccc aaatgacaat gattcttggg agatgcatga agagatgcta aaaaactcag 420  
aagattacta taaggagaat gggctacca 449

<210> 33804  
<211> 188  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-017-Q1-K1-A4  
<400> 33804

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tcgcgcgcac tcgtctgttt ctctcatgga agccgtgtga acctgtgcgt gtgtgtgacg 120  
aatgaacgga actttatatg gaccagtgtc taagagtctt tgcaacataa ttatgaaggt 180  
ttgtttgc 188

<210> 33805  
<211> 404



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-A7  
  
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 tgcgagcaga ccagcgctgg gtgctgcaag ccgaccaccg gcgtctcgcc ggcgcgcgac 180  
 ttctacataa cgggcttcac cgtgcttaac gcgaccaccg acgctgcagt gacgggatgc 240  
 agcaacaaag ttccttacga ccctaacctg attaccggca tccaaggcct gaatcagtac 300  
 tggagcaaca tcaggtgccc cagcaacaac gggcagagca gctggaagaa cgcctggaag 360  
 aaggctcgcg cctgctccgg ctcagcgaga aagactactt cgag 404

<210> 33806  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgtttgatta acccgcccag taaagccatg ggtactaatt atagagcggc catttctcta 180  
 gtactcctcg tgtgcatcgc tagccgctcg tccttgggtg ccgctgaaac tgacgttgag 240  
 cagaagcgct cgtcagtcgc tttgatgttt gtgttcgggtg attcgctggc cgatgtcgga 300  
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<210> 33807  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-017-Q1-K1-B1

<400> 33807

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tctgacagct atgcaagtta tggcggctcc caggcacctg gaagaggata tggggcttac 180  
agcgggtaca gtgctcgctc ctctaatagt gggttatctg gtcatagttc tcttcactat 240  
ggaaagcgtc atggttatta ggatttagat tgcttgataa agcagctatc tgatggacct 300  
gttattttca cttttgccac ccctgctccc ctcacgtact ataaaaacag ccaagacatt 360  
gaagtttgga gcct 374

<210> 33808

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B10

<400> 33808

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cgaaggtgta cacccttgag gaggtggcca tgcacaacac caaggatgac tgctggctcg 180  
tcatcgggcg caaggtgtac aatgtgacca agtttctgga ggaccaccct ggaggtgatg 240  
atgtcctgct gtcttccact gccaaggatg ctaccgatga tttcgaagat gtggggcaca 300  
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<210> 33809

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B11

<400> 33809

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atctgagctg gcaccgtccc acttcgccat ggcggaagac cggagcccca agcccatcca 120  
ctgcaaagcg gcggtgtgca gagccgccgg cgagccactc accatcgagg agatcgctcg 180

cgacccgccc aaagcgtacg agatccgcat cggggtcgtc tgcacctcac tatgccacac 240  
cgatatcacc ttctggaaag ctaaggaggc accggagtat ccaagaatac tagggcatga 300  
ggcgtagcggc gtagcggaga gcgaggagga gcacgtggag ggcttcgagg cgggggacac 360  
cgcggtgccg acgttcctgg ggcagtgcga gcgctgcgac tactgcgcgt atgagcac 418

<210> 33810

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B12

<400> 33810

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gggaaaaaaaa aaaaaaaaaa aaaggaaaaa atatataaaa aaataaaaaa ataataaaaa 120  
ataaatgcga cgccatattt tttatatctg gtcaactaaa ttaattaac tgacagatgt 180  
tttaaacgt ggtgactgga aacaaaatga ctttaccat ctt 223

<210> 33811

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B2

<400> 33811

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acaccaggcc tggatgcac tatctatatt caagtggttt tcgtacatcg gatgacacga 120  
ttccttctga cagctatgca tggtatggcg gctcccatgc acctgaaaga ggatatgggg 180  
cttacagcgg gtacagagct cgctcctcta ataataagtt atcttgatcat acttctcttc 240  
actatggaaa gcgtcatggt tattaggatc tagattgctt gatatagcag ctatcttatg 300  
gacctgttat tttcaacatt gtcaccttg ctactttaac gtactataaa aacatccaag 360  
actttgaagt ttggagcctg cttata 386

<210> 33812

<211> 222

<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-017-Q1-K1-B3  
 <400> 33812  
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 gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 120  
 catcgcgccc tgcctctcct acgcccgcgg cacgggggtcc ggccccctccg cgtcctgctg 180  
 taccggcgtc aggaacctca aaagcgccgc cagcaccgcc gc 222

<210> 33813  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-017-Q1-K1-B4  
 <400> 33813  
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 gatccgggggt catccgtcaa atcagttgat acgaagacat tagaggatat aatcggccct 120  
 tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180  
 cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240  
 atagcctcca agataacaac tttgattgac ccgcggcacc ggtatgacca caaccttcac 300  
 tgctacta 308

<210> 33814  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 33814  
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 gatggctcgc acgcaatctg ccgtagcggg cgccgtgggt gccgcgggtg tgctgctggc 120  
 agcggcggcg acgacctcgg aggccggcat cacctgcggg cagggtgagct ccgccatcgc 180  
 gccctgcctc tcctacgccc gcggcacggg gtccggcccc tccgcgtcct gctgtagcgg 240

cgtcaggaac ctcaagagcg ccgccagcac cgccgtcgac aggcgcgccg cctgcaactg 300  
 cctcaagaac gccgccaggg gcgtcagcgg cctcaacgcc ggcaacgccg ncagcatccc 360  
 ctccaagtgc ggcgtcagca tcccctacac catcagcacc ttcaccgact 410

<210> 33815

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C11

<400> 33815

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 gtgcattttg gtggacgagc aggacaatgt tgttggccat gagtcaaagt acaactgcca 120  
 tttgatggaa aagattgatt ctgagaatct gctacatagg gcatttagtg tgttcctttt 180  
 caactcaaaa tatgagctgc tacttcagca aaggcccgcg acaaaggcta cctttccttt 240  
 agtttggacc aatacctgct gcagtcaccc tctgtaccgt gagtctgagc ttatccagga 300  
 gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 360  
 agcagaagat gccccagttg accaattcac ccctctgggc cgaatgcttt acaaggcacc 420  
 atctgatggg aaatgggggg agca 444

<210> 33816

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A1

<400> 33816

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 gggactacct cggcaacccc agcctgatcc acgcgcagag catcctcgcc atctgggcct 120  
 gccaggtcgt gctcatgggt gccgtcgagg gctaccgcat tgccggcggg ccgctcggcg 180  
 aggtcgtcga cccgctgtac cctggcggca gtttcgaccc cctcggcctg gccgacgacc 240  
 ccgaggcctt cgcgcagctc aagggtgaagg agctcaagaa cggccgcctc gccatgtttt 300  
 ccatgttcgg cttcttcgtc caggccatcg tcaccggcaa gggcccgcgc gagaacctcg 360

ctgaccacat cgctgaccca gtcaacaaca acgcatgggc ctacgccacc aacttcgtcc 420  
ccagcaacta agctcaacgg ctatgctatg c 451

<210> 33817  
<211> 274  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-017-Q1-K1-C12  
  
<400> 33817

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ggggcatagt agctacaaca ggctacgaca ggcacattca gtcatatgag cattcatgcc 120  
attatacatg aagcaattga cattgacgtg cgctttgcaa attgtgatgg ccaagactat 180  
gtaacagaag cccaatcta agctatcacg atctgctaag aatcagtact gaatgatgg 240  
tgcagtaact taactgtact ccgctatctg ctaa 274

<210> 33818  
<211> 351  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-016-Q1-K1-F8  
  
<400> 33818

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gcaatgtcac gcgcgatggc gcgcggcatg gtctccgcga acggcggcac gatcacgggc 120  
tagaataacg tgtcgatcta cttcaccatc gactgcaccg acccaatcat ggacatcatc 180  
atggtcgtca acttgctgga gaagctcatg caggaccgca tcaaggctgc tggcagcctg 240  
gctgactacc tcagcatctc tgtcaccatg tctagcgaga cgaccaacgt taccgtaacc 300  
tttgacagac cgtacttcaa gagctacatg aagaacttgt ccaagaagta c 351

<210> 33819  
<211> 363  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-016-Q1-K1-F9

<400> 33819

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caattctttt ttctgtagag tgtacactta gtaagacaac gtgaacccaa cacaccttct 120

ttctatacca attatcccta tatcacatct aaatatcact caaatcatca ataatgcaaa 180

tgcctattac attcaattaa tccttaagga aaacatatca cacacgatat aaccgcttac 240

cttaacgctc cttgcctatc cactgaacaa cacacactct tgtttcaccc tgggtataccg 300

agaactcctg gatcacttga ccatgtocac ttcaatacac taattcaata ccacctattc 360

cac 363

<210> 33820

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G1

<400> 33820

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ggttacgagt tgatgaagaa gaaagttaaa cagtatggcc agcagcttca gcagggggaa 120

aaagatcgtc gtcgggttct gaaggatttc tcgaagatgc ttgatgatca gatagagaag 180

atcgctctgt ttctgttggg acaacaagga ctattggcaa gcaggattga gaagtttagga 240

aagcaaaggg caatactaca agagcagcca gatatatctg gcattgctga gttacgagaa 300

gcttataggg aagttggtat caatctcacc aaacttctca agttcggtga ccttaatgca 360

actgcatttc ggaaaatc 378

<210> 33821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G10

<400> 33821

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ctggtgcgtt ccccaacggg agagggttatt tttggagggg aaactatgcg tttttgggac 120

cttcgtgctc cgtgggttaga acctctaagg ggccccaacg gtttggactt gagtaggttg 180  
 aaaaaagaca tccaaccttg gcaagaacga cggtcagcag aatatatgac ccatgctcct 240  
 ttaggctctt taaattccgt ggggtggcgta gctaccgaga tcaatgctgt taattatgtc 300  
 tcccctagaa gttggttagc gacctcccat tttgttctag gattcttctt ttttgtgggc 360  
 catttgtggc atgcatgaag agcccagct gctgcagcag gctttgaaa gggaattgat 420  
 cgcgatttgg aacctgttct ttacatga 448

<210> 33822

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G11

<400> 33822

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 aaaaatataa aaaaaaaaaa aaataaaaaa gaaattggaa aaaaaaaaaa aaatataaaa 120  
 aaataaaata ataaaaaaaa tataaaaaat aatataataa aaaaatataa aaatatatat 180  
 ttaaataaca ataaaaaaaa ttaataacat gtatacaaga ctatgtatct aaaattagaa 240  
 ttattttctg tagaacatat gacatttgat taacttaaac ttaaaaatcg cattgatgaa 300  
 actgtttcaa tgattgaagc atacctttaa gcctataaaa taattgtgta ctacaattag 360  
 cattcaactg aaagaatata ctcatattta gctgaacctt gat 403

<210> 33823

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G12

<400> 33823

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 agtgctttgc ccatcttcag aggttatcgt ttgagcggat actattcgta tttgggacct 120  
 tcgtgctcat cgattataac ctctaagggg cccaaccgt ttggacttga gtatgttgaa 180  
 aaaagacatt caaccttggc aagaactacg ttcatacataa tatatgacct atgctccttt 240



aagctcttta aattccctgg gtgacttagc tacctagatc aatgctgata attatatatg 300  
ccctataact tggttatcga cctcccattt tgttctaaga ttcattctatt ttgtgggtcca 360  
tttgtggcat tca 373

<210> 33824

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G2

<400> 33824

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gcagaaaggt caaaaataaa aaaagcgtac atacactaac atacaacata tataacaatg 120  
ccatccccctt tcatgaatcc aatttactgt ccccttcttt acaacgcat ccaccgttca 180  
tatccccctc ctaacctaac ttaacctcct ctcgggtccat accctttccg cgggcaaacc 240  
tcttgctttc ccaaacttac cctatttcaa ttcctcctc tttctccac ttaccggaaa 300  
cttgaacacg ccctatagct tcgcttttcc ca 332

<210> 33825

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-G4

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gtggacaagt tttggacatt attgctgctg tgagatgtag tgctaggcaa cagatggtct 120  
ggttggtgga tcatggattc catggcattg agaagcttgc aaggctagat tgattgtgtt 180  
ctgcgggggt aaatcttgcg tggcgttttg aacgtggatt ggtaaacaga atagcatctt 240  
ttgaacgtcg gttgttccat gtccacagct gatggtggtg gcctcgaatg tcgtactgta 300  
cgtccatgtc gatgattccg tcgcaggagc ctactactac tatatccctg ttctatgtaa 360  
gatatgtgta ctccagtaca nacagtatat ggacagctca ngattttttt atattggtct 420

acacatacat ctttagatg

439

<210> 33826

<211> 338

<212> DNA

<213> Zea mays

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<400> 33826

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atgggtcaacc acttcgtcca ggagttcaag aggaagaaca agaaggatat cactggcaac 180  
cccaggggtc tccggaggct gaggaccgct tgtgagaggg cgaagaggac tctgtcttcc 240  
actgcccaga ccacgattga gattgactcg ctgtatgagg gcacgcactt ctactocacc 300  
atcacccgtg ccaggtttga ggagctcaac atggacct 338

<210> 33827

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G6

<400> 33827

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gcttttccca gctcgtcact gtgcgcctcg tgtccttcac tcccgggtccg cccaaccaat 120  
aatccatcga tccatccacc accaccaccc cgctgcggcg atgtgcggcg gcgccatcct 180  
ctcgggtttc atcccgccgt ccgggggtggc ggcgggcgcg gcggcgggcg ccaagaagaa 240  
gcagcagcag cggtgccgtg tgactgcgga cctgctatgg ccggtgcccg gcagtaaggg 300  
agctccccag gacaaggagg aggacttcga ggccgacttc cgcgagttcg agcgcgggccc 360  
tcgcgaggat ga 372

<210> 33828

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G9

<400> 33828

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tttcgagatc caccctacaa tatggggcca aaaagccaaa aaaataagtg attcgttttt 180  
agcccttata aaaagaaaac ggattccttga acctctttca cgctcatgtc acgtcgaggt 240  
actgcagaaa aaagaaccgc aaaatccgat ccaatttttc gtaatcgatt agttaacatg 300  
gtgggtaacc gtattatgaa agacggaaaa aaatcattgg cttatcaaatt tctctatcga 360  
gccgtgaaaa agattcaaca aaagacagaa acaaatccac tattgggtttt acgtcaagca 420  
atacgtagag taac 434

<210> 33829

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H10

<400> 33829

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agcaccgcgc agcaggcgag ccgctccgcc tccgcgcctc tatccgccgt ccgctcgtcc 180  
cgaggccgcg agccgctccg cggctacgac cctccgcccg ccgtctgccc gtccagcgag 240  
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ggtcgctcg ggctcggacc gagccgctcc gccaccgtc cgccgagcgc ctgacggccc 360  
gagcaggcga gcagctccgc gcctccgccc gccgtccgct cggcccagagc agctcaactcg 420  
ctcagccgca g 431

<210> 33830

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H2

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 atactagttc tagatcgcg t 81

<210> 33831  
 <211> 210  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H3

<400> 33831  
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 aacatatttt acaacatata actattataa tctcatttac actaccttta attctaactt 180  
 ataatccatc attcataatt tttaaacacct 210

<210> 33832  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cttgtggccc agattaagga agggttcgaa agcgggaagg atcttgttgt gactgtccag 180  
 tctgcgatgg gggaggagca gatctgcgcy ttgaaggatg ttggcccca gtaacttct 240  
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 aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgcata gcgtgcaang 360  
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<210> 33833  
 <211> 225

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-H7  
  
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 ctaaaaaagg cccacctttc tgaaggaccc aacctctcta acccatcctt ccaacactat 180  
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<210> 33834  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-H8  
  
 <400> 33834  
  
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 taaagcggaa gatcttgtgt gactgtccag tctcatggag gagacagatc ttcccttgaa 180  
 gatgttgccc caagtaactt ccttgacttt ggaactaacc ctactgttct aacttaaadc 240  
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 tctta 305

<210> 33835  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-F7  
  
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 ataaaaggat gagctgcccc tccatggcac agctactctc caataccctg tactacaagc 180  
 gattcttccc atattacgcc ttcaatgtgc tcggtgggct tgacagctag gggaaaggat 240

gcgttttcac ctatgatgca gtaggttcct atgagagaac cggttacagt gctcatggaa 300  
cggaatctac ttgatcatc cccgtcctgg acattcaact aa 342

<210> 33836

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E1

<400> 33836

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tgatcacccg gcccatgttc cacagcatgc tgagccaccg cggcgacagc gggtgccagg 180  
gcgccttcta cacctacgac gccttcacgc aggccgtcag caagtccccc ggcttcggca 240  
ccaccggcga ctagcagacg cgcgatcggg agctcgccgt cttcttcggc cagacgttcc 300  
acgataccac cggtggtatg gc 322

<210> 33837

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E10

<400> 33837

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atatgggaaa gttgctccgg gttgggggac tactcctttt atgggggtcg caatggcttt 180  
attcgcgata ttcttatcta taattttaga aatttataat tcttctgttt tactggacgg 240  
aattttatcg aattaggttt ctactaacta aaactatgac ttcatagttt ttccatctca 300  
aaaaaagcct ttctacttta agctccacat ttctagacat tctggtagtt cgaccgtgga 360  
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<210> 33838

<211> 432

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-E12  
  
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 cgctcggcc accgtggcgc tggccgcgga ggcgccggct ccgtctcca ccagcggctc 180  
 ctccgggtc gcacccgcca tcgtcggggc cgccgtggcc tcttcttcg cgtactacat 240  
 tcaactgagc gccggacgag gagccggagc cggagggaag agaccaaggt ggggggagag 300  
 acttggtgc gctgcgtgc tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct 360  
 gattgggcac ggcggtggca gtggcacacc ttcgtcttac ttttggtagt attttttact 420  
 tctcttttct ac 432

<210> 33839  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-E2  
  
 <400> 33839  
  
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 gagtaactga ggagagacct ggctggtgta gcgacctca cctgccacca tgtgcagcgt 120  
 ttgttgaaat tatggcaact gtattctcaa gggatgcatg gcgctgtgta tggcatatga 180  
 ttcagaacga cttagtccat ggatggggcc ttgattttgc tcttaggaaa tgtgtggagc 240  
 cagcccatga gaaaattgga gtggttgact ccagtggtat tgttcatcaa gtcacccctt 300  
 cgcttggtaa ccagggcaag gcagagaatg gaaaagcacc atgggaaggg gtagagcacg 360  
 ctgtcgtaaa gaagggggga tgttccaaac aagg 394

<210> 33840  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-E5

<400> 33840

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gcctcgcgct cccgccccct ccggggaccg ctgcggtggt tgaggcgacg catgaggagg 120  
aggaggacca ggagtgggag gctgcgctgc agaagtggaa gaccaagacc tacgcgctct 180  
cgggtgcccct acgggtcgtc gcgctccgcg gctccttccc tccatcttgg attaaggatt 240  
tcgtcgaagc tcagggaag agactcaaat tcagtcctga actccgtgct aatcttgatg 300  
ggatcttctc tgagatgtca caatgtatgg acaagggtca agttcagccg aagtctgcaa 360  
tggcagctga tgttgtttcc ctggggactc tnggctcggc tatgccatcc gtaagggatt 420  
gctagagcct atcatgaatg ctga 444

<210> 33841

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E7

<400> 33841

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attgtggatt tggcattacc aaaaactcct aatgataact ctctgtcatt gtttgctgat 120  
ccccttgttc cagagagatt ttattgtgcg catgggtggg ggcttgacat ggtcacactg 180  
cacttctac cattttcata ccctgaaatg tcttcgacac caccctctgt gcatcctgtc 240  
ctcactacag ggaacagcga aacaagctca ccttttcttt ctggatttgt taccatagct 300  
gatgcatatg gtcatgtaca gttagctggc atcacatgc 339

<210> 33842

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E8

<400> 33842

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gttcgtacac tcgcggtcgc actcataacc gcatatggct ttcaaggaga acagcctctg 120  
gccaatggaa caatgtaagc aaggggaagtg cgtaaaacgg atccgtaact acaggaaaag 180  
gattgtctct gagggttgag ctccgtgac cgggtctact aaccgctctg ctgctggcgg 240  
aatgatcgag ctgctcacgc gcaaataag 268

<210> 33843

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E9

<400> 33843

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cacaatgcgc aatcaacgat atgctacaaa tgctgtgaca gcatttattt ttcgagaaat 120  
tgctgagaga caccagctac ctatacagga ttttgttggt cgcaatgaca tggcttgtgg 180  
ttcaacaatt ggcccaatac ttgctagtgg tgttggtatt cgactgttg atattggagc 240  
acccaatta tcaatgcaca gcatcagaga aatgtgtgcc gctgacgata ttagctactc 300  
atatgagcat ttcaaggcat attttgaaga atttactgaa ttggatggca aggtcaaagt 360  
ggattactaa agcatatagc acaatagggt agctttgtta caagctgtac tttatacaaa 420  
ttcgataagc aagtggagaa caaatttg 448

<210> 33844

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F1

<400> 33844

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gccgggctag cagcgcgcgc tgctctctct ctaccctccc tgtgtgcact aaactactag 120  
gagtctaggt cggggctacg acaactggtc agagacgacc agcaccacc atgaaaaggg 180  
ttgctcctag cctactacag atagggatgt ttacgatcaa gctacaatga aggattctca 240  
ggatattcag agcacaacag agttgcagtc atcagcacag ggtactaatg aagtgcatag 300

tcagcaacca aaccgatga cactgatgc tctgc 336

<210> 33845

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F11

<400> 33845

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ggactcgggc tgagatcggg tgggaaccaa agtatccaag cttcaccgaa ttccttggtg 120

tcagcagtta acatccttgc atactgttca gttagtctga ctcagctgag ttgcaaccgt 180

gattagattg tacatcggtt gaatttttat atgggtctgaa ctggtgatgg tgtacatctc 240

agcctaattt tttattctca cagtatttga gctgtgaacc agacagatgc caccatcc 300

cactggacaa tatatactgt cacgtgagtg gatttctcga tcaaaataaa at 352

<210> 33846

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F12

<400> 33846

accactctt cctctaagtt ttaggcttt attggtactg actttccatt tttgaagaga 60

atgtagaatt caagatctct gtctattatc atatgggac gaaagtatcc aatcttcacc 120

taattcctta ttatcagcat ttaacatcct tgcatactgt tcagttagtc tgactcatct 180

gagtatcaac cgtgattaaa tttacatcg tttgaatact tatatagtct gaacttttga 240

tggtgctcat ctcaccctaa tttattattc tcacagtata tgatctctta tccaaacaaa 300

taccactcta tactacttaa cactatatac tgtcacgtta atagatttct ctat 354

<210> 33847

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F2

<400> 33847

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acatcgaaag gccaacctac accaacttga acaggctgat ctcacagatc atatcatctc 120  
taaccacctc cctgagggtt gatggtgcta tcaatgtgga tgtcaccgag ttccagacca 180  
accttgttcc ataccacgt atacatttca tgctttctc atagcccct gtaatctctg 240  
ctgagaaggc ttaccatgag cagctctctg ttctgaaat caccaatgcc gtctttgagc 300  
cctcaagcat gatggccaag tgtgacccaa ggcattggga gtacat 346

<210> 33848

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F3

<400> 33848

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gattgcgga gcagcagaag cggcgcgag agctcgtgac gagagcaacc ttccttccgt 120  
tcctcgatcg ccatggacaa ggtgctggcc ttctcgatcc tgagcgcgtc gccggccgac 180  
ctctccttca cgggcgccgg cttcggcggg agctgggagc ggctgtcgtg gcggcggggc 240  
gcggacgacc agcgtgcgcc gcggcgggag cagcagaagc agcagcagga ggaggacagg 300  
gagaagcgag acttgcgctc cc 322

<210> 33849

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F4

<400> 33849

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agaaagtgag acaaagtga gcgaaagagt tttctttgta taagaattag gtctatatca 120  
tatctaaata gaagggaat caaaaagaag ggaagtggg attacattgg atgaatcctt 180  
aaggaagaca tatcacaaaa gaaataaagg ctaaagtaag cgctccttgc ctttggtttg 240

agcaaaacag attcttgttt caccgaggaa aagagagaag ttctggataa attgacaatg 300  
tcaacttgaa ttgactaatt cagttccgcc tattccacat taatgggagt acatttatgt 360  
ttctgcttta cgaatatgat attttt 386

<210> 33850

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F5

<400> 33850

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gctgtaaaca tgcctgggaa ataattgggg acctggattt gaataagatt tgagttgttg 120  
ggggcggacg tgctacatta ggccttggtc gggtattcct aatacccttc ggtgcaataa 180  
aggaaatcat cttgcgcgtg accgagcgtg cac 213

<210> 33851

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F6

<400> 33851

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gtaaggctct gcagaagaac ctagctgccg gagaattgct gtaccaacac cagcataata 120  
aaaggatgag ctgccccgcc atggcacagc tcctctccaa taccctgtac tacaagcgat 180  
tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgct 240  
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgtc cagggaacgg 300  
gatctacttt gatcatgccg gtcttgaca atcaactaaa ataaccaagt cctctattac 360  
tcctgtcag ggatgctgtc aca 383

<210> 33852

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D9

<400> 33852

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cgcccgagga gattggagct ggtgaccagg ggcacatgtt tgggtatgcg actgacgaga 120  
cccctgagct gatgcccctc agccatgtcc ttgccaccaa gcttgggtgct cgtctcacag 180  
aggttgcgaa gaatggaacc tgcccctggc tcaggcccga tgggaagacc caggtgacag 240  
tggagtaccg caacgagggt ggcgccatgg ttcccatccg tgtgcacaca gtcctcatct 300  
ctaccagca cgacgagaca gtcaccaacg acgagattgc tgctgacctg aaagagcacg 360  
tcatcaagcc agtcatcccc gaacagtacc ttgacgagaa gacaatc 407

<210> 33853

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B6

<400> 33853

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120  
ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180  
cgttgaacca aacgtacttt tccaacattt catatatatc ttaataatta cattt 235

<210> 33854

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B8

<400> 33854

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gtagcgtcga cgtcgtcctc cctactgcat gccgcgagcg ttgccggccc ggcggtgagg 120  
cacggtgacc tgcccaccct gcaggtgcca acgcacctcg gagtcgccga ctggacgcag 180  
atgcaggacc cgtttcagct gcgcagcccc tggcaggacc acctcttctt ctctccctta 240

gccacactgc tataactgaag tctgaactct gaagtgagga aggtgcacgc gcaacttgga 300  
 agaagtgggtg aactgtatca ccgaaatgcg gttcagctct gcaacggcga gccgtgatgc 360  
 tagcttagat gtgaattcgg ttgaggatat actgcacgaa caagtggaag tagaagaaga 420  
 agtgagtact cgtatcgg 438

<210> 33855  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-016-Q1-K1-B9  
 <400> 33855

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 acaacaaaag ggcccacccc tatatggctc ccaacctatc gaccacatcc agactagggtt 180  
 aacgctgcta caacgcctac ccataactcc tgaaatgacc agactttata cactcgcgctc 240  
 cctgtaaaac ctttgcagct acccatcata taggactggc ggcaactccc cttttgcccc 300  
 ccatgcccac ttagcaatgg gccctaaaac actccactga ccgaacttaa gccc 354

<210> 33856  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-016-Q1-K1-C10  
 <400> 33856

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 gcgccggcgg gaggcggacc cggcggcggc gatggccgcy gcgcggcacg agttcggcga 120  
 gcacggcggc gtgaacatgt ccatcgaggc gtcggcgacy ttcacgggtga tggagccgga 180  
 cacgatgcgg cggctgttcg cgggcgagct gggccccgac cgcggagaca tgtacatcta 240  
 cagccggcac ttcaaccga cggcgctggc gctggggcgg cagatggcgg cgctggaggg 300  
 cagggaggcg ggctactgca cggcgctcgg gatgtccgcc atctcgtcgg tgetgatgca 360  
 gctggtgggc gccggcgccc acgtggtggc gtcgcggtgc ctgtacggcg ggacacacgc 420

gct

423

<210> 33857

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C11

<400> 33857

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ggcgacaagt gcattttttac ccgccatcag cacaatgcc aataactac 120

aaccaccacc ctatgaacat gatcaaactc cagaatctgc tacatacagc atttaaatccg 180

ttcactatgc acccactatt cgatctccaa ctctaccca accgctatca catttacatc 240

tacagtctac atttcaaccc tacataactc attctccatc tgtacattgc gtctctgcta 300

atccacgaaa actaccctac tta 323

<210> 33858

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C12

<400> 33858

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gatacgagga gagaatgatt catgctgagg tatgctactt ctgtgtacag atgagatata 120

tcatatttcc aacctactcg ctagtatgtg taccataata taggtgctga ctatatagaa 180

ttagactgct ctagtgagct tccaagaagt tcattcgctc caacagacaa gtatctttgc 240

cttgcaactt gggataccaa agctccaaca ccgcaccag 279

<210> 33859

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C2

<400> 33859

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gctgtcttct gccgtcccgg ccgtttaatt tactagtgtg ttcgtcctat atgttttagca 120  
gcagcaggtg tattgtgcgg gtatgtaatg gtattgcaac tatattgggt gtaaaaccat 180  
aataaatgtg ggcaaatatg caagg 205

<210> 33860  
<211> 167  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-016-Q1-K1-C7  
<400> 33860

cccacgcgtc cacacacgcg tcctgtcgtg gtcaccctga tgcaaccaga caagagcgac 60  
gggtataacac actttgcgtc gctgccaaac cgcccatcgt agcaactcgc ctgcacggca 120  
ttcggcgctc aagccggctc cgtcaagatc aaatactccc tgcaaga 167

<210> 33861  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-016-Q1-K1-C8  
<400> 33861

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atggacgcgg tcgattctgt ggtggatccc ctccgcgact tcgccaagga cagcgtccgc 120  
ctcgtcaagc gctgccacaa gcctgaccgc aaggagttca ccaaggtggc agcgcggacg 180  
gcgatagggg tcgtcgtcat gggcttcgtc ggcttcttcg tcaagctcat cttcattccc 240  
atcaacaaca ttatcgtcgg ttccggctag gctcagggcg cgactagcat gggagtagtg 300  
cgatactttt gagagcaagg gatagcgagg atcttggctc ttggaatagt attgttaatg 360  
acattttttt tccggtggng tttctggaat aaatcgttga acgac 405

<210> 33862  
<211> 312  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-016-Q1-K1-C9

<400> 33862

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tgatgaggaa gaggaggaag ccagcgcgagc tgagggccct acggcctatg ttcctgtcaa 120  
ggttaccctt ctgcccgtcg ctgaaggggtg cctcgtcctc ccgtgagtcg gtggtcgggtt 180  
aaataaaggg ccgtatatga ttgcgagccc tgtgctctgc cgctattttc ttctcgtttg 240  
tgtcttgctg ctctcgtggt gaactcgcta ctccagtgtt ctgcaatatt aagcagaagc 300  
tattgtattg tt 312

<210> 33863

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D1

<400> 33863

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cgcttggggc acggacgacc actcccttca caacgccttc agcacctacg gcgaggtcct 180  
cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac 240  
cttctccacg gaggaagcga tgcggaacgc catcgagggc atgaacggca aggagctgga 300  
cagtcgcaac atcacctca acgaggccca gtcccgcg 338

<210> 33864

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D11

<400> 33864

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gaccaagtac tttggatgtg agcttggtgc acagtccaaa tttgatgaga agacagggat 120  
ttccttggtt aatggggctc atgatactgc aaagctggct ggtctccttg aggtattcat 180

caagaagtat gtccaatgtt atgggtgtgg gaatcctgtg actgagattc tcatctcaaa 240  
gaccagatg atatcatcga aatgtgcagc ctgtgtgttc gtctcagatg ttgatatgag 300  
ggtcaagc 308

<210> 33865  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D12

<400> 33865

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tgaaattgca ttttagtttc ttgcgccttg ttgtttaaag ctcttcaact tattggcatc 120  
atgaggaact gtcgtgagac atcaatgggc agagtccgac cataaccaca tatatagttt 180  
taacaatgtc tcaagttttg tgttattacc tgttgtctgt tgtctgccat atgtaatagt 240  
ttcctttcag aaggcaaaag cacttcttcc ccaaaaaaaaa aaaaccaaaa tactcataaa 300  
aacaaaaaag aacaaaaaaa aataataaac tactaccacc 340

<210> 33866  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D3

<400> 33866

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ctgctgtcaa tgattagaaa cggactatac tacaccccggt agtacgaaac caaggatact 120  
gatatttca cagcattccc attaactact catatccaaa ctctctctga agaatcatga 180  
gctgcagtag actgccaatc ttctactagc acatgtacaa ctgtatgcac tgatacactt 240  
accagacttg atcgatacaa acgaccatgc tatcacatcg agcccgtttc tagggaccca 300  
tatcaatata tctgttatgt agcttattca ttatacctat t 341

<210> 33867  
<211> 277

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D4

<400> 33867

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 aaagaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagactg cccctttttt aaattcccat 180  
 atttcccccc cctcaattcc aattttttaa aatttttttt ttgtcccca aattcaatta 240  
 catgtccctc tttttaaaaa ttctttacct tgaaaaa 277

<210> 33868  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D6

<400> 33868

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 tctcgccgcc gccacaccac aaccgcgtga agcgaagcaa gcaatggccg gagtcggatc 120  
 gaaggccctc gccgttgccg ccgtttctggc ggccgtctcc ctctcggtgg ccgccgcggc 180  
 cgaggcgccg gcgcccagcc ccgtctccgc cgccgtcgcg gcgtcgtcgc ctttcgccgc 240  
 ggccctcgtc gcctccgccg tcgccttccct cttegccgcc gtccgccact gagccgatgg 300  
 ggccctcgtc ctgcaggcta cctagcagta ctttcgccgc tgctgccgcc gc 352

<210> 33869  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D7

<400> 33869

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 ccagctcgcc ttccgcacac gacaaccggt cgaagcgaat caagcaatgg ccggagtcgg 120  
 atcgaaggcc ctgcgcgttg ccgccgttct ggccggccgctc tcctctctcg tggccgcgcg 180

ggtcgaggcg cctgcgccca gccccgtctc cgccgccgtc gcggcgctcg ctcccttcgc 240  
cgcggtcctc gt 252

<210> 33870  
<211> 317  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-016-Q1-K1-D8  
  
<400> 33870

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gagagcgggg aggaagaaaa accgatcgat ggcgccaac tacgtggaca cgacggggcg 120  
ggagggacgg ttccacggcc ctcacagcca cagcaccagc acgaccccga cgggcggggc 180  
ggcggcgggc gcggcatcgc cgcgcaactt ccggcgagc ttctcctccg cgctcctccg 240  
ggtcacagc cactgcggcg gcggctgtgc caagtgcgtg tgcgcgccct cgacccacgc 300  
cgggtcgttc aagtgcc 317

<210> 33871  
<211> 393  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-016-Q1-K1-B4  
  
<400> 33871

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gggaccggcg tcgagccctg ctctgcgcgc cccttcgtcc ccgtcgccgc gatgaagcgc 120  
gcggcagcgc aggcctagct ggcttgccgc gatcgacgac aggcagagtt ggttaccgct 180  
gctacgacgc ctacgcgtga cgctgaagt gaatagactt gcttcgctcg tgcgatctc 240  
ggcatgtagc agcgaatcat catgtaggac agggggcgct ctcgctgtgg tgcccagccc 300  
cagtgcgcaa tggcatatag aacactccag tgactgtact taaatcttat ggaacttggg 360  
tctgctactg ataactaatg aaccaatggt ttc 393

<210> 33872  
<211> 334

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-H3  
  
 <400> 33872  
  
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 cgcccgcgag ccgtcccgcg tgttcacgtg caactactgc cagcgcaagt tcttcagctc 120  
 gcaggcgctg ggcgggcacc agaacgcgca ccggcgggag cgcacgctgg cccggcgcg 180  
 gctgcggtc gacgcggcg gcccctacta cggctacggc tacggctact acgccgacgt 240  
 cgcgccctg ccgctgtacg gctcctgctt gtaccccatc ggcatccagg cgcacgcgtc 300  
 ggcggcagcg cttccggagc acgaggacgc gcgc 334

<210> 33873  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-H6  
  
 <400> 33873  
  
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 cactgatcag aatcaccgca tgcacactgg aatcttgact tagaagcgtg catgcgtacc 120  
 ccttgacaca agaactccta ccgattgggt tttcaacaaa tcacaatgac cacttgaggc 180  
 aatcaactgt tgctctagga ctaggtggat ttact 215

<210> 33874  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-H8  
  
 <400> 33874  
  
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 aattcagttg taacatttct gatttaaagt aaagatacat ctgaaagtgc aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaataataa aaaacaaaag aaaatttaac ccactggctt ttttaaccaa cgcaatgaac 240

aaattgtgtg aattaaacag ttactttcat actatggtga a 281

<210> 33875  
<211> 273  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A1

<400> 33875

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aaggaaataa ttaaaaaaat aaaaagatca taaaaaaaaa aaatataaaa taaaatataa 120  
taatataaaa aaaaattgaa aaagaaatct actaagtata aatattatga cgaataaaaa 180  
aattgtcaaa gctacataaa atctgtactc attgtataaa tactaactta tttaaataa 240  
cgtttatgaa cataaaattt attatgttaa aaa 273

<210> 33876  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A10

<400> 33876

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gcggcacatcg gcccgtcagc tggatgtacg acaggaccag ctaccggaac tgcccctgca 120  
ccagcctctc cgggatgctg accgtcagct ggttgtgccc catgtccatc gaccgcacgc 180  
tgggcaggtc ggcgaacgac tcctggatgc cgtgcgtgag ctggctgctg gagaggtcca 240  
ccgagtcgag gccgaacatc ctctccaggg acttctggat cgcgcgggac acctaggtgt 300  
gggagacagt catgaactgc aagttggaca gcgcgtgcag gcacgcgctg atggggccccg 360  
tcagccct 368

<210> 33877  
<211> 200  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A12

<400> 33877

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gactgcgcat ctacatgcag cattcttgcc gagatcctca tagatccata ctacccgatg 180  
ctaaacaaca tcttgaacta 200

<210> 33878

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A3

<400> 33878

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gggagaactg gcacctaccg ccagctcttc caccctgagc agctcatcag tgggaaggag 120  
gatgcagcca acaactttgc ccgtggtcac tacaccattg gcaaggagat tggtgacctg 180  
tgccttgatc gcatcaggaa gcttgccgac aactgcactg gtctccaggg ctctctcgtc 240  
ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct agagcgcctg 300  
tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc cccccaagtt 360  
tctacttcgg ta 372

<210> 33879

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A4

<400> 33879

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atgatgcac caacaacttt gcccggtggtc actacaccat tggcaaggag attgttgacc 180  
tgtgccttga tcgcatcagg aagcttgccg acaactgcac tgggtctccag ggcttctctg 240  
tcttcaacgc tggttggtgga agaacaggct ctggccttgg ttccctcctc ctatagcccc 300

tgtctgttga ctactgcaga aaatccaaac ttgggttcac tgtagacccc tttcccccca 360  
 attt 364

<210> 33880  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A5

<400> 33880

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 catattctgt taactaacca gccattata gtcattgcta ctaattatag agcggtcatt 180  
 tctctagtag tacttatgtg catcgatagc ccttaatgct tgcacggccc ttaaaactgac 240  
 gttatgc 247

<210> 33881  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A6

<400> 33881

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 gtcaagaact gtctgaggtg cagcctcacg cacacattgt gccttggcct cacgcagtgg 180  
 ctggcgtagg agggccgatt ctggtggact tgggcatgga gaaacacaac tgcacaatga 240  
 tgacgaggtg gcttcgaccg aggcttctgc ctctactget cctgatttgt atggtaaacc 300  
 aagaacctgc aaggatggat ggagcaattt attatctgtg gactctgtta tggatggatc 360  
 agttgc 366

<210> 33882  
 <211> 173  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3068-016-Q1-K1-A7

<400> 33882

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atcatcaatg ggagagctct cacatactcc cggctgttac accctgacta aataatcact 120  
tctaactatt atgcatcacg acacactctt acctgcatca ctaaaacaca cat 173

<210> 33883

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A8

<400> 33883

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catagccatg gtgcggcgag cttttgcggc gcgaggcgct agcggtcggg ctgctgcggc 120  
accggacggc gcctacgcgc ccgtcgggtcc cgtggcgatc ttgctcctgc ggtggccgga 180  
ggcgccgggc ggcatcgcgg cgttcgggtgc ggcgagggcg ccagaaccgg ccggcagagc 240  
actgcacaac gcatactac 259

<210> 33884

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A9

<400> 33884

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gtcgattaca ttttcacagt gggagcttct tcaattatga atgcttcttc tgaaattctt 120  
gtgaacttag agaaattgct agatgagaaa tcctcagagc cttggagtca gcaccgtctt 180  
cccacaatga cagctaccta tcctgctgtc attgacagtg atgtagagga agatgaagca 240  
agagaattcc ccaagaccg taaatgtggg aaatctgcat caaggccatc tgcgatgtct 300  
agtgatgaca gcttccttca gaaagactgc accgctgaac aagccgtctc taagcagatc 360  
agagcacttc gcaagaagct gcaacagatt gagattctcg aggctaaaca acttgcaggt 420

catcagcttg acagtcagc

439

<210> 33885

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B1

<400> 33885

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tgctccaaaa cgagatgttg ctcagattga acaaggctctt atcagtgtcg aaaaggatgc 120  
ccagcagcgt cctaggggaat catctacacg aaggaagcca gcttcaccac cgcggaacg 180  
atctccaaat cgaagggctg aatcgccac gctgtcacct gacccatcac ctaagcgtcg 240  
tcctgattct acgactatct gtcgccgacc agatccttct cctgtcaagc 290

<210> 33886

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B10

<400> 33886

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gtagctgtcg gtgctaattc agtgcagatc acccggtgta ttgagaaaac agccaaagca 180  
ctagtcatg aactccaaaa gatgtccaag gaggttgagg acagtgagct tgctgatggt 240  
gctgcagtta gtgcgggaaa taactatgaa attgggaata tgatagctga ggctatgaaa 300  
aaggttgggc ggcaggaggt ggtcacactt gaagaaagaa agagtgtga aaataacctc 360  
tattctgttg agggaatgca gtttgaccgt ggctatatct ctcctactt tgtgactgac 420  
agtgaaaaaa tgacagtcga gta 443

<210> 33887

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B11

<400> 33887

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ccacaaagag ctgagggttag tcagccatgg cggcaccgtc gaccgaggac tgcggctggc 180  
tgctgtacct ctccctggcc gacaaatgcg ggcaccctag ccgcctgctc ggcttggcgg 240  
cggctcttctg cggcgccctgc gtcgtaacgt cgctcctgca ctgggcgtgc ccgggcggcc 300  
ccgcctgggg gcggtactgg tggaccaggc gaggcgggct gggcatcggt cggggcgcca 360  
tcccggaccc ccggggccctg cagtgggtccg cagcatgggg ctgatg 406

<210> 33888

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B12

<400> 33888

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gagatctgct atctttggca tgctatgggt tctccttggg aaacgcgtgt ggttcttccc 120  
caatataaat gcggaggaga caacttttag agaactcggt cgcttttggc ctgaatagga 180  
tgtatgagtg cgcccaaagt ggacatgaag acttttttat gcccttggtg ctctatcggt 240  
gatattactg cttaggcatc atgctcctga cgtagcagct tgagccaggt accaaaagaa 300  
ggtttctaac ataatctatg acgatcttga atgggtctccg aagttagcta tgtctggaat 360  
gatcgaaaag cacactgctg ctaacatta 389

<210> 33889

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H2

<400> 33889

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ggattatgct ggagatctga gagtagcagc ttcaaattgg aatggaaaag gctctttcct 120  
attcacctcg agtactgctg tgtatgactg cagtgcacaat ggattctgca gtgaggattc 180  
tccttgtgta cccattgggc aaagcactcg tactgatgtg cttctaaaag ctgaaaatgt 240  
tgtccttgag gcaggcggct gtgttcttag gctagtagga cttataaat cagatcgggg 300  
tcctcatgtt tactggctgt caaaaggaac cttggatgtg cgtcctgac atatactcaa 360  
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gagctgcatc tttgtgggtt gtgac 445

<210> 33890  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-016-Q1-K1-B2  
<400> 33890

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aatgataaaa aacaaaacgt taaatcaaat tgtaaaatgt cttacaaatg ctttaaaa 118

<210> 33891  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-016-Q1-K1-B3  
<400> 33891

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atttgттаag tggagaaggg gaaaaccgta cagttcacta canaaagcta agcgtggctt 180  
gaaatctgca tgggtgctttc tgtcgattat taattattca atgatatagt acgaagttat 240  
acatagatgc gtatgtgaga cccaatgaaa ccaaatttag atatntggca taccatgctg 300  
ttcttctgcc aaaaagatgc aacgctcttc tttacaaagg tctctctcta gtggtgaagt 360  
cttagtgga ctgt 374

<210> 33892  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-F3  
  
 <400> 33892  
  
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 tgggcaggaa gaggtcgtcg tcgcaggga tccgctgcga ctacatcggc tccgccacca 240  
 acctgatcat ggtgacgacg acgacgctga tgctgttcgc ggggcgggttc gggctggcgc 300  
 cgtcggcgaa ccgcaaggcg acggcggggc tgaagct 337

<210> 33893  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-F4  
  
 <400> 33893  
  
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 ggctaccctg gcaaccccc gaaggacgtg accgccgacg acttccacta tgggggcctc 240  
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 acgttccccg gcctgaacgg gctgggcac cctgccgcgc ggatggatgat ggtcccgggc 360  
 ggcgtcgcgc cgctgcactt ccacccggga ggcaccgagc tcatcttcgt catcgagggc 420  
 agcgtcgtc 429

<210> 33894  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F6

<400> 33894

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gtaagcctgc cgccatctct gtacgtgatg acgttaaacg gcgtcagcac gcagtgcac 180  
tcgctgcaca gcaccgtgaa cgtctgcaac ccctacgact accacttttg catctgcgag 240  
gtgacctaca cgctcctgta cgctgcaag gtcgtggtgt gctccaccat gcgactacac 300  
ctgctggatc ctgcacagcc tgtgcatctc gcttgagatg atcgtgaagg tgccctacga 360  
cttcc 365

<210> 33895

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F7

<400> 33895

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tcttgcgctc agatcggccc acataggccg gtccttgctg tcaaaacgag aggcgggtgcc 180  
cagctaagga cccacggaat a 201

<210> 33896

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-F9

<400> 33896

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agtacatgca gcccagaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180  
tgaagctgag ctaaagcttt ctcgccagga gattgcaaat ctccaggatg acaacagagc 240

tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300.  
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacaggaacc aagagttgat 360  
caagcaaatt gagatctgcc atgaagaana taaaatctta gataagctgc atcgccaaaa 420  
gattgcagaa gttgaaaagc tt 442

<210> 33897

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G1

<400> 33897

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cctggtacgg tgcgcccacc ggcgcgggcc ctgatgacga cggtggtgcc tgtggattca 180  
agaacgtgaa cctgccgcgg ttctcggcga tgacatcgtg cggcaacgag cccctcttca 240  
aggacggcaa gggctgcggc tcctgctacc agatacgatg ccagaaccac ccagcctgct 300  
ccggcaaccc ggagacggtg atcatcaccg acatgaacta ctaccccggtg gccaaagtacc 360  
ac 362

<210> 33898

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G10

<400> 33898

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tatgggaaaa aaaaacataa aaaaaaata caatagtctt tgctctgttc tggttccact 120

<210> 33899

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G11

<400> 33899

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ctggccgatg atgccaggaa ggaggtagac agctaccggc agatcgctccg caccaagacc 180  
cagaaactag aggaggagta cgccacgaag gtggc aaagc tgtgcttcca ggagacggag 240  
gagaagagga ggaagaaagt tgaagagctg aagacgctcg agaactcgca ctacgactac 300  
cacaagatga agctgcggat gcagaccgaa atccagggct tgctcgagcg gatggaagcc 360  
acaaagaaga tgtgggtata ggctcctggt aacaatttca tgttgctgct gcttaatggt 420  
tcgggtatag actccagcta acaactgcct gatgct 456

<210> 33900

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G12

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agaggtttca tatattctat tccaacatat agaactatta tattacaaat ggcaaaccga 180  
accttcataa gtacattgag gaagtgtaca cgattgatgc atacacacag actatacatg 240  
accacatct tttacttgat catacatata atcatcttgg gattgcttta aaccttgctg 300  
cctatgatga ctc 313

<210> 33901

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G2

<400> 33901

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cagatccagt taaaattcaa gctattgccg agtggccagt gccaaactgt ctcaaggatt 120



tacgcagttt tttgggcctt gccggctact acaggaagtt tattaggcat tttgggggtca 180  
 tttgccagcc cttgaccgct ttactgaaga agggcagtct gtttgtttgg acaaatgata 240  
 atgggtattgc atttgacact ttaaaaaagg ctttggtgac agctcctggt cttgcattac 300  
 ctgatttcac tgctgctttt atcgtggaaa ctgatgctag tgctgacggt gtgggtgcag 360  
 tcctcatgca aaaaggtcat cctctcgctt tgcttagtaa ggccctgggt cccaagtcta 420  
 agggattgtc aacatactaa aaatagtact 450

<210> 33902

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G3

<400> 33902

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 gcggaaacag cgcggcggcg gcgacggaga acccgcccc gaaagccggt cttgccgaag 120  
 acacaagccc ttcaacgggg tcggtttcaa acttccttac accttcaagt ccttcgatct 180  
 ctaggcgggtg tttatcgag 199

<210> 33903

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-G5

<400> 33903

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 ctgcaggatc cagcaggccg aggaaggagt cagcggcggg ccggagaaaa tgagcggcaa 120  
 cggcgcgaag aaggtggtcg atgcggcggg gaaggccggc aggacgatca tcgactggga 180  
 cggcatggcc aagttgctcg tcaccgacga ggcgcgcaag gagttcgccg ccctccgccg 240  
 cgctttcgat gacgtcaacc accagctcca gaccaagttc tcccaggaac cccagccgat 300  
 tgattgggag tactacagaa aaggaattgg atcanaagtg gtggatatgt acanagaggc 360

ttttgaaagc atcgagatcc cg

382

<210> 33904

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G6

<400> 33904

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gactctgtgc cctgggtggc tctttctggt gatatttatg acggtgtact tcttcgttgt 120  
gaggcgcaag tggtcgccgc actttctgag gttccatgtg atcctagcga tccttctaga 180  
cactggctcc caagcagtgg ccaccatgtg tacctggatg ccaagcatcg tttatcaggg 240  
gaagccaatg cagtacttct ggatgtctat cgcgttcata cagatcttca cagtgtctga 300  
gtgtttgcgc tgcgctctgt gtggaatgta tcctaattgc ccattcatat cccacaccgc 360  
tttcattcac tctgatctga atctgttcag gtaggtgctt actacataag gtccaggact 420  
caaggaaaga tttcggaatg gctacttaca gtt 453

<210> 33905

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G7

<400> 33905

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tgggtatgat ccatgagggg gtgtaactag tcatatttat gacggagAAC ttgatcggta 120  
gcaggcccaa gaagggtggc gacgtttctg atgatgcatg tgagactatc aatgactgta 180  
aacacttggt caaaatgacg ggcaaccacg agtacctcaa tgacatggat ggcctatgac 240  
gggctgtcaa tgacgtactt caggatgtct ataccaagtc atacacagta tccacagtgc 300  
tatagatgt 309

<210> 33906

<211> 164

<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-015-Q1-K1-G8  
 <400> 33906  
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 ttgcacttat tggatttccc agtgttggaa agtcaactct tttaacgatg ttgactggga 120  
 cacattctga agctgcatca tatgagttca caacgcttac ttgc 164

<210> 33907  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-015-Q1-K1-G9

<400> 33907  
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 tcgcagcaga agcatcccggt cccctccgct tctccttgct ctgctctggt aacacacaga 120  
 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180  
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240  
 aggaagaagc aatcaagaag aagtttggag gactaatgcc caaaaagccc cactcatct 300  
 caaaggatca tgagcggggc tactttgatt ctgctgactg ggctctaggg aagcaagggtg 360  
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 aacagcaaca acgtgcaagg cgccctatct acacttcgtc ag 462

<210> 33908  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-015-Q1-K1-F12

<400> 33908  
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 cttgaatctg agattacca agacgccact ctgaagctgc tacattcact ggatccaatt 120  
 aaaaataagg acaccaagga taggggcaca ttacatctta aggtaaagta ccacccttt 180

acaaaggaag agcagctgga agccctagag atggaaaaac aagccataga ggagaggaag 240  
 cgtctgaagg aggctgggat aattggtagc acaatggatg ctgttggttc tgggtgttga 300  
 tttgtgggta ctggcattgg cgctggcctc ggtttcgttg gttcaggaat tgggtgctggc 360  
 gcaggccttg ttacctctgg tattgggtgct gtcagcagtg gccttggtta agccgggaag 420  
 ttcattgggca ggactgtgac agggcctttc agcatgt 457

<210> 33909

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H1

<400> 33909

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaata taaaaaaaaa aaaaaaaaaa 60  
 aaaggaaaaa gaaaaaaaaa aaaataataa aaatacaaaa aaaaaaggcc cgcctttttt 120  
 acgtttccat gccttgggtt tgccttcttt tggcttccag gttttttttt gcggtcacct 180  
 aactcccttt ttctgttctc gggccccaa ctttacttcc tgtgaccctc cttgtgctac 240  
 cctccttttt ggaatctect gtttttcccc 270

<210> 33910

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D2

<400> 33910

acgcccacgc gtccggcagg tggtagcttt gatgtgtccc tctcaccat tgaggaagga 60  
 atctgggagg gcaaggccac agctggtagc acccatcttg gtggtagagg actctgacaa 120  
 caggatggtc aaccacttcg tccaggagtt caagatgaag aacaagaggg atatcactgg 180  
 caaccccagg gctctccgga ggctgatgac cgattgtgag acggcgaaga ggactctgtc 240  
 tttgactggc cagaccatga ttgagattga ctgcgtgtat gaggtcatgg acttatactg 300  
 caccattacc cgtgccaggt ttgatgagct caacatggac ctgttcaaga agtgcac 357

<210> 33911

<211> 136  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-D3  
  
 <400> 33911  
  
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 tgtgggtgtg gaggggt 136

<210> 33912  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-D4  
  
 <400> 33912  
  
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 aggaaccggc ttctgcagag ttcggagatc tcattctatc tgatctctca ttttcgacct 120  
 gctaattctc ctctcatttg catacaatat actttatttg aacctcttcg tatctcattt 180  
 ctcatcatct cttcatctta ttcattatag actatttcct tatactctta ttaacctatc 240  
 ttacacttca ttataggatt a 261

<210> 33913  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-015-Q1-K1-D5  
  
 <400> 33913  
  
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 gcgggaacat gaaccctcgc taggtctggt ccacgtagcg gcggctcttg tagtgccaga 120  
 agccgaggac cggctcggtg tcgccgagga cgccggcctn ctccagggcc tcgcgccggg 180  
 cggcctcgtc catggactcg tccacctccc acccgccctt ggggaacatc atgccgtgcc 240  
 ctttctggga cgtgatcgcc agcaccttca gctcgccgtc gcaccgcacg cggtacggga 300

tgcagcccac cacgatgcgc ccgccggtgc tctggctgta 340

<210> 33914  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D6

<400> 33914

ggaaaatgtg tacatggcga agctcgtcga gcaggcggag aggtacgagg agatgggtga 60  
ggtcatggat aaggtagcca agactgttga ctccgaggag ctactgtgg aggagcgaaa 120  
cctcctgtct gttgcataca agaacgtcat tggagcccgt cgtgcctcat ggcgcacat 180  
ctgtccatc gagcagaatg aggagggccg aggcaatgag gaccgagtta cactcatcaa 240  
ggattatcgt ggcaagattg agactgagct gaccaagatc tgtgatggca tcctcaagct 300  
gcttgagacc catcttgtgc cgtcttgacac tgcccccgag tccaatgtct tctatctcaa 360  
gatgaagggt gattactaca gatacctcgc tgagttcaag ac 402

<210> 33915  
<211> 477  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D7

<400> 33915

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cgtcgttctg aaccgagaag gacgacggtc atgtctcttg agggagatgc atgaggctcg 120  
ggtaaccccg ctctacaaca tcaagggctt tccttgcttg tcatcgagtc ctttggtttc 180  
tccagccaac tgagggccgc aacctctggt caggcgttcc cccagtgtgt ctttgaccat 240  
tgggacatga tgggctcaga tcctttggag gccggctccc aggtctctca gctgggtgctg 300  
gatatccgca agaggaaggg tctcaaggaa cagatgacct ctctttctga gtttgaggac 360  
aagctctaaa atttttggct gttggtgata ctgtttcatc tgccggttta atcatcaatt 420  
cgtctactgt aatagcagcg acttcaatat tttattttgg tttagttgtc aaatgca 477

<210> 33916  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-D8  
  
 <400> 33916  
  
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 ggcatccaca aaatatgcct cagcacacaa caattttgca ggactaaggg tctattttggt 120  
 tcgcggtctaa ctgcgccaaa ctttgcctaa gtttagttgt ttgaattgaa taactaacct 180  
 tagaaagaaa agttaggcaa agtggtgcaa gttatgcata gaaccaacaa ggccctaaat 240  
 gttttgaaac tgtatatatg aagcctgttg atggccactt ctaggtagct gggatgatga 300  
 atgcattttc aagcacattc tgtttggtgg tgctgccaat gatgcgttcg gctcgcccg 360  
 tctgggagaa gtgtacgggc acgagcgacg caactggatg ccatgggtga ggaatgag 418

<210> 33917  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-E1  
  
 <400> 33917  
  
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 gggcgtgatg aagtccggcg agcggggcga gcagatgcgg ggcgtccggc aggaatctct 120  
 gcggttctctg cttctggtca tcgtcgccgg cttcttctc ctcttcctga ccttcgtcgt 180  
 tatctacaag cccgattcca tctgtccag cctgaacggc aagctgcccg tggaccatgc 240  
 gccgacgtcc atcctgattc atcagaaggt taactcgccc cccgccaccg cacttgagac 300  
 cttcaccgac gcactgcgtg gagaccctag agtggtcgat gacgaagccg atttatgacc 360  
 acaggggt 368

<210> 33918  
 <211> 177  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-E10

<400> 33918

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tgatgcacga ataagcgtgg ctacgtaatc tatcgtatgt atacgtgtgt gtatgcatgt 120  
gcttgtgtat gatcgtggta cgaggaccga aaaaatgtat gcaactctga tttactt 177

<210> 33919

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E12

<400> 33919

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ctgttccacg caaaaccaag actacactga ctattacaag cttactagca tgcattgcata 120  
atcattatta taataataat aataaaacta tctcactgat ccactttgct ctacctctat 180  
caataatgaa acaactgtat ttaccttcoat tacttaattg tgtatgcttt tactcctact 240  
ttccgatttc atcatgtctt taacatctca ttaattcact atatttctat aacaaataat 300  
tttattaaag gtcgatcact ctatattatc caatcttact tactcttaca ttcaacgtta 360  
tatcttttat ataatttaat ctaaatt 387

<210> 33920

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E2

<400> 33920

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ttctgttaac tcaatctaac tcaaaattcg aaataacact ttggcctaaa ttaatcaagt 180  
tttgtgaatc aaccaattcg agcataggtc aagggatcaa gatttaagca aatgtttaat 240  
cgtatcgagt tctatatact tattaagcac ttacctcata tatgaagggt ccaccaggta 300  
ctcaaagtgg agtggaagga gggccatggt attttttttc cttaaaactt ctttaagtagt 360



gttgcaaact cagggcctct tggctctgga ctaagcacia aagccttaaa ttg 413

<210> 33921  
<211> 285  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-015-Q1-K1-E4

<400> 33921

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tgctagtctc taccaccagg cccagcccc ccattcctgc ctcttctctc tctcgccac 120  
ccgccccggc cccaatgtcg ccgcccctcg agccccacga ctacatcggc ctctccgccc 180  
ncgcccggc gccnccgacc ccgacctnct cctcgtcgtc ctgctcctcg ccggcgcccc 240  
gcctcacct tcgctcggc ctgcccgggt ccgagtcacc cgacc 285

<210> 33922  
<211> 354  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-015-Q1-K1-E5

<400> 33922

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cgggatgaag tccggcgagc ggccgaagca gatgcggggc gtccggcagg aatctcggcg 120  
gttccggctt ctggtcatcg tcgcccgtt cttctcgtc tccctgacct tcgtcgtcat 180  
ctccaagccc gattccatcc tgtccagcct gaacggcaag ctgcccgttg accaggcgcc 240  
gacgtccatc ctgatccagc agaagggtta ctcgcccccc gccaccgcac ttgagacctn 300  
caccgacgca ctgctggag accctagagt ggtcgatgac gaagccgatt caag 354

<210> 33923  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E6

<400> 33923

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ttctatagtc gtcaccgtag aattcaatgt cgactggcac gtcgctttta cacagcgtcg 120

tgacatgtgg aaaactcctt ggcgttacgc cataactaag tcgcccttgc atgcacattc 180

ctccctttcc gccatgcttg gcgttaatat gcgatagagg cctcgcactc gatctgcca 240

ttcccaacaa gtttgcgag ccctgaattg gcgaatggga 280

<210> 33924

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E7

<400> 33924

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gtg 63

<210> 33925

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-E8

<400> 33925

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cgtggtgtcg tccgtcgccg ctttcgccgc cgccgaccac ggcttcacgc acatccacct 120

gtacgtgcac gagacgtaca ccggggcgaa cgccacggcc gccgccgtgc tgcagtcccc 180

gctgggcgcc aactcgtcgt tcgggagcat gggcgtggtg gacgacgaga tacgctggg 240

cccggaccgg tcgtcgagc tcgtggccg gtaccagggc gtctcttcgg cagcagcgtg 300

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gggagcacc tgtccgtgca ggggccctg ctcgggttca c 401

<210> 33926

<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D12

<400> 33926

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aagggcattg atcattacat ggaatcctat taagatatta tatgaaagtc gaatttcttc 120  
cattctcatt tgagaatgcg aatacaagga ggtattttgt gttcgggaaa gtccgaagaa 180  
aaaaggatgt ggaatctacc ttttcttttg ctttttcctt tataaaaaata actcaatcaa 240  
aatccaatta tctactctac aagaatgaaa tgcttggtat gcctaataata cttagtttta 300  
cctgtatctg ttttaattct gttctttgtc cgactagctt tttcttcgcc aaattaccgc 360  
aagcttatgc cattttcaac ccaatcgtgg atgttatgcc tgcatacct gtactctttt 420  
ttctatttagc gtttgtttgg caagctgctg taagttt 457

<210> 33927  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E9

<400> 33927

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catccgagcg aacaagccaa ccgaccccggt cccaaggca atccgccgcc gacgtaccac 120  
caccaccgca ggagcgagat ggagatgaag aggatcctct tcgccgtcct cgtcgtcatc 180  
gccgcctcgg ccaccgcagt gctggcctcc accgaggccg ccgccgcggg gcccccaact 240  
gcctccgagt cgtccgccga ggctcccgtt ggcgctggcg ctggcgctgc cgtcggcgcc 300  
gccgccgcgg ggccctccgc cagcagcggc gcgccgcccc tcgccgccgc gcccgccgcg 360  
ctcctcttct cctcctcgc ctactacct cactaagcgt gtgcgtgcg 409

<210> 33928  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F1

<400> 33928

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ggatggcaggg ctgccagctt taacatcatt cccagcagca ccggtgctgc caaggctgtc 120  
ggtaagggttc ttcctgaatt gaatggcaag ctcaactggca tgccttccg gggtcccacc 180  
gtggatgtgt cagttgtaga cctcaactgtc agaatcgaga agggggcctc ctacgaggaa 240  
atcaagaaag ctattaaggc cgcttctgag ggccactca agggatatcat gggctacgtg 300  
gaggaggatc tggtttccac cgacttcacc ggtgacagca ggtcgagcat ctcgacgcc 360  
aaagccggga ttgccctgaa cgaccacttc atcaagctcg tctcgtggta cgacaacgag 420  
tggggc 426

<210> 33929

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F11

<400> 33929

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taatggataa aacaaaaaaa cccaaataaa aatgccatt tttcaaatga accaattttt 120  
ccgaaaacaa ca 132

<210> 33930

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B6

<400> 33930

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ggcggggcgg gagcctgctt attcacggc gcggtgact gcttcttcga ctacgaggat 120  
gcctgctgca gacgcgacgc ggcagcctac cggtcgaacg gatccgccga cgaacggatc 180  
tcctgcgct gatacatctt ttgcacggc actaccgatt ggaccgatct ccgttgctg 240

gtatatacct

249

<210> 33931  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-015-Q1-K1-B7  
  
<400> 33931

cgacgcacgg gtcactcgac gcgtgagcta gctgtataag tcgagtatag cttgatctac 60  
acaagagaca aagcagggca cggacaatgt ccctgcctc ctcgtcctcc gtcgctgctc 120  
ctgctcctgg ccgccgactt cgctatcatg agcgccaaca cgaccacctt caccatcacc 180  
aacaactgct gggtcaccgc gtgggtccgcg gccaccccggt tgggcgccgg cactcagctg 240  
aaccggggcg caacgtgtac cgagaacacg ccctacgtca ccagctactg ccccggtgtag 300  
tgccgcaccg gcatgctcct taaca 325

<210> 33932  
<211> 296  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-015-Q1-K1-B8  
  
<400> 33932

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ctgttcgccg tacccttacg acggccatac tatttggtat agcggatctc tattcgaatt 180  
gatttcccgt gctttatcaa tctttggctt gcgaactccc tgggtggccg atcttttagtg 240  
ccttg gatat acttcgctt ttggcttgct tctttatcgg cgccgaggcc tgatcc 296

<210> 33933  
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<212> DNA  
<213> Zea mays  
  
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<400> 33933

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 ggaccaggtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 180  
 agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 240  
 cgtcgtcggg gctatcaaca actacacgga ccagctctac agctacggcc agaagacttc 300  
 gtataacctg acggagagcc tgatgttctt ggcacacttc gtcggcgacg tccaccagcc 360  
 gctgcacgta ggcttcgaag atgacgaggg cggtaacacc atcaccgtcc actggtaccg 420  
 gaggaaagcg aaccttcac acgtgtggga tgtcagca 458

<210> 33934  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 33934

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 gtgaacgtgc cgtcgtcgtc cgccttcggc gagggccgcg tgacgatgcy caagacggcg 180  
 gcgaaggcca agccggcggc ggcgtccggg agcccggtgt acggccccga ccgcgtgctg 240  
 tacctggggc cactgtccgg cgagccgccc agctacctga cgggcgagtt cccgggcgac 300  
 tacggctggg acaccgccc gctgtcggcg gaccgggaga cgttcgcca gaaccngag 360  
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<210> 33935  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-C10  
  
 <400> 33935

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 tcgtactact acaacttctt tatctttcaa cacatcttcc atcccatcca catttcccac 120

atcataactaa tttaccacct caacatcccc tacaatccct ccttttacac c 171

<210> 33936

<211> 333

<212> DNA

<213> Zea mays

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<400> 33936

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tttcatgtca catgcaactt gaagcatgcc tacctgcttg gttaaccgcg tgtcagcagc 120

aacgatggag ttcaaggcag tggatcttcc actagattat ttgcaaaag ggcctttgct 180

gggggttttta agggacaaaa tgcactggga accattcctt tggaaaagct tttcttctct 240

ggtggggaaa atttctgctt ggcctgaagg ctattgccgg ttggccaaag tgtgaaagac 300

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<210> 33937

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C12

<400> 33937

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caccttggaac acctgatacg actatgacta ctaccgcgcg tacactgaat tatgtccttc 120

ggattttcaa aggatctctg aggcgcaccc tacaccgagc aatgtgcaga tctatttctt 180

cctctgtacc ctacctttgg ctaaaccgat tcctagaatg acaggacttt aatcataaaa 240

gataactc 248

<210> 33938

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C2

<400> 33938

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 aaaaatacat cacctttgtc acttccaata atgagctatc agttcaaact ttatcataac 180  
 tcctatcgat tctcaatata tatgccc aaa tccatgcgag acgctagtga ttataatttc 240  
 tacatcttct tactacctag acttgctaca acttacctgc ctctcttcaa agagtttttt 300  
 gttaacagat ttgaagtctc cctgggtctg cctgaattta cttctgtaac gctttccat 359

<210> 33939  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C3

<400> 33939

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 tcgcaagttc atgaccaacc gctgctggc ccgcaaaciaa tttgtgcttg aggttatcca 180  
 ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240  
 ggtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaggcaa 300  
 gtccactggc ttcggcctca tctacgataa cctcgagtct gccagaagt tcgagcccaa 360  
 ataccgctc atcaggaatg gtcttgctac taagggtgag aagtcccga agcaaatgaa 420  
 agagcggaag aac 433

<210> 33940  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C5

<400> 33940

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 gcgtggcgcc cgcgcggcgg catcccga a ggtggcctcc ctcttctcgc agaagggcaa 120  
 gaaggggccc aaccaggacg ccgtcatact ctgacaggga ttcggcatgg atgacggcct 180



gttctgcggc gtgttcgacg gccacggtcg ttgcgggcag ttcctcagca agctggtgag 240  
ggactaccta ccgttcatga tctgagcca ccggaacgcg ctcctcatgg gctccgacga 300  
ctacgactac gacccggtct tcagcgacgc gtcggcgctcc gcgtcgtcca cggacggcag 360  
cgggcattcg tagccggcgc cggctcacct gctggaggag tggcttgag gctcgcgcca 420  
actcgttcaa ggccatggac aagg 444

<210> 33941

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C6

<400> 33941

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ggccgccgac cgatcgaccc cgcttgccct cggcgcgggc aggcgcagca attcaagtgc 120  
atcacggttg ctacttccat aacgtgctaa cagtcaaatt tgtcaagcta ctgttgatgc 180  
tccagatata gtagaaaacc atgggagaag ttagtgatga taattccaac atgtcctttc 240  
taaaaagaat cgcttcaagt ga 262

<210> 33942

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C7

<400> 33942

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tacaactacg gcgacttcat ccccggtgctc cgccccctcc tccgcggtta cctcaaccgc 120  
tgccacgacc tcaagacgcg ccgcatgaag gtcttcgagg acaacttcgt acaggagcgc 180  
aagaaggtga tggctcagac tggtgagatc cggtgcgcca tggatcacat cctcgaggcc 240  
gagaggaagg gcgagatcaa ccacgacaac gtcctctaca tcgtcgagaa catcaacgtc 300  
gcagcgatcg agacgacgct gtggtcgatc gagtggggca tcgccgagct ggtgaaccac 360  
ccggccatcc agcacaagct ccgggaggag ctgcctcgg tgctgggcgc cggcgtgcct 420

gtgacggagc cggacctcga gcg

443

<210> 33943

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C8

<400> 33943

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aacgcgagaa ctgctattat gcatgcagca gccgtaagca ttgctactag ggtttcatgc 120

ggggcgaagc aattgggtcta tgccgcctga acgcacggcg gaatctgtta ggcctacccg 180

agctgcgtac gacggcagat aaggcagacg tcgtcacggc aatgccggat atgcttgctg 240

cggacccagc ttttccagcg ccattcacgc caaccaattg ggtccacaga cagctcgtct 300

gttcagggtg ctggaacttt ctcattgttc cagattgtg 339

<210> 33944

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-C9

<400> 33944

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agcatgctga gccaccgcgg cgacagcggg tgccagggcg ccttctacac ctacgacgcc 180

ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240

aggcgggagc tcgccgcctt cttcgggccag acgtcccacg aaaccaccgg tggatgggcg 300

actgctccgg atggaccgtt tgcttgggga tactgccggg tgaaggaaca gaaacagacg 360

gacccaccct actatggacg aggaccata cagctaactc ataagtacaa ctacaggctc 420

ngccggcaag cgctgaacct gaacctggtg ggc 453

<210> 33945

<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D1

<400> 33945

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tgccagaggc cgaggaccgg ctccgtgtct ccgaggacgc cggcctactc cagggccttg 180  
cgccggggcgg gctactgcat ggactcgtac acctcccacc gcgccttggt gaacatcatg 240  
ccgtgcccct tgtgggacgt gatctccagc acctgcagct cgccttcgca ccgtacgcgg 300  
tactggatgc agcccaccac gatgcgcccg ccggtgctct ggctgtacca ctgcagctcg 360  
cgtacctgcc tcttgaccag cacggccatg atggagatac gcatgctgct tctagctgat 420  
tcgttctcgt tgctatagcg g 441

<210> 33946  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D10

<400> 33946

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gccaagaagg tggaggtgga ggtcaccaag gagcccgagg cggcggcgaa ggaggacgta 120  
gccgatgaca aggcgcgtcat ccccgcgacc gaccgcgtgc cgcgcgcgtc gccggccgac 180  
gactccaagg ccctggccat cgtcgagaaa gttgcagatg aacctgctcc cgagaagcct 240  
gcccctgcga agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca 300  
gagaagagga actctttgat caaagcttga gaagagaatg agaagacaaa agctgagaac 360  
aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaacata 420  
gaagctgaac tgaagaagat tgaggaacaa ctggaaa 457

<210> 33947  
<211> 321  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B5

<400> 33947

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ttggctggca tgagcgccaa cgccgtcacc ttcaccatca ccaacaactg cgggttcacc 180

gtgtggcccg cggccacccc ggttggcggg ggcacgcagc tgaaccggg cgggacatgg 240

accgtcaacg tgccggccgg caccagctcc tgccgcgtgt ggggccgcac cggctgcttc 300

ttcaacggca acaacgggag c 321

<210> 33948

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H1

<400> 33948

acgcggaagg gagcttcgag gcggtccgcc acttctcggt gatcggggcg gctgagccaa 60

tgtgacaggc ctctatggcg cgaacgcact atacatcttc ctggctggct gcaagcagac 120

tcccgtcttt ctaagctcca ttggtactct aaatcattaa ttctcata 169

<210> 33949

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-H4

<400> 33949

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agctcgttgt gcttgctctg cttttcgtga tcgccggtgt ggcgcatggc gcgggggagt 120

gcgggagagc ctccgccgac aggggtggcg taaggatggc gccatgcac tcggctgccg 180

acgacccgca gtccacgccg accagcagct gctgctccgc tgtgcacacc atcgggcaga 240

gccccagctg cctgtgcgcc gtcattgctgt ccggcaccgt cagggtgccc gggatcaagc 300

cggaggtcgc cattaccatc cccaagcgct gcaacatggc cgaccgnccc gtcggctaca 360  
 agtgcggaga ttacacgctg ccctagctga tgaagacgtc gtcaacgaga ccgtgcgagt 420  
 caagtgcattg aacgaatgcc attatgccat gcaactatg 459

<210> 33950  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-H7  
 <400> 33950

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 acgcccacac cgcagccccc gatgtcgtcg cagcgcgccg gccgtcacca gcgccgcgcg 120  
 tcgcagagcg tgttcgtgct ccagagaaac ctggcctccc tcgacgtcga cgcggcggcc 180  
 gacgcggggc ccaaggccgg cgggccagaa ggcgcggcg ccggcgccga gcagcaggcg 240  
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<210> 33951  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-H8  
 <400> 33951

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 cgccgacgcc gccgcgccgt gctggccccc atcgccccag tgctgcacca tcggccggga 120  
 tcctgggacc gagttgcgct atgcgatgaa actcggctgc tgtcatctcg cgaacaataa 180  
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 cagacgg 247

<210> 33952  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H9

<400> 33952

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 acacaacgcc ttcagcacct acggcgaagt cctcgagttc aagatcatcc tcgatcggga 180  
 gacgcagaag ctccacggct actgcttcac caccttctcc acggaggacg cgatgcagaa 240  
 cgccatcaag ggcatgaaca gcgaggaact ggacagacgc aacatcaccc tcaactaggc 300  
 ccagtcccca tgaagccgcg gatgcagacg cagctgcagg tactgctgta gccgatg 357

<210> 33953  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-015-Q1-K1-A1

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 cgtggacatg tcggagatct tccccgccag cgtcacgctc agcagcggcg gcgacgtgga 180  
 caatagcggc aacaagccag acgaggaaac ggccccgcga ccgcagctgt tggccacgac 240  
 ggcgctggtg ccggtgacgg aaaagaaggc cggctacgac gtggcccacc ccgaccgcgg 300  
 cacggtgatc tcgcgctaca aggagaagcg gangaacagg atgttgagcg ggcgagccgg 360  
 agtagtggtg gctccgatcg acaccacagt c 391

<210> 33954  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A10

<400> 33954

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gtaaaaacaa gacgtaataa aaaaggatcg acgcggaaag ttccgattga aataggatct 180

aaacaaggaa gagcacttgc cattcggttg ttattagaag catcccaaaa gcgtccgggt 240

cgaaatatgg ctttcaaatt aagttccgaa ttagtagatg ctgccaaagg gagtgggggt 300

gccatacgca aaaaggaagc gactcataga atggcagagg caaatagagc tcttgacat 360

tttcgttaat ccatgaacag aatctaggta tgtagacaca tggatccata catctcgatc 420

ggaaaagaat caatagaagg agaatcggac gatatc 456

<210> 33955

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A11

<400> 33955

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gtgacaaatc cactattgggt ttcacgatca gcaatacgta tagtaactcc caatttatga 120

atctaataca gacgtaatag caaacatcg actcccaaag ttccgactga cataggacct 180

aaacatggaa gagcacttgc cattcgtaaa ctattaaaat cataccaaaa ccgtccaggt 240

cgaaatatgg ctttcaaatt aact 264

<210> 33956

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A12

<400> 33956

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggccg aggaagcgcc 180

cgtggtggag accccgccgc cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240  
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 ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagcccc tcgcggccga 360  
 accggccgcc gaggcggagg ctgctgctcc tgctggtccc gaggagactc ctgcggtcga 420  
 gc 422

<210> 33957  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A2

<400> 33957

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 cgtggacatg tcgtagatct ttcccgccag cgttattctc agctgcggcg gcgacttga 180  
 caatagcggc aacaagccag actaggaaac ggtcccgcga ccgcagctgt tggctcacga 240  
 ctgtgctggt gccg 254

<210> 33958  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A7

<400> 33958

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 agcgacgacg gtgagagaga aagtggaggc ggcggatgaa ccgtcgaaga cagtatgctg 180  
 tcaacgacga cagtgacaag cagctgatgc gggagatcct gtccttcacc ggtgggatgc 240  
 cgcaatggca gatggccgca cccgaggaac acgacgtcga cggcgggaagg gagcagcgag 300  
 gtgcgttcga aggagcaggt ccacaccatc gtccaattga cgtcgacgaa tcagatccac 360  
 ttgttgcttc cgtgttcctt tgcaacgacg acctatctgc aacaatggag ctgcgcgcca 420



ataggaatgg atacttttcg aggatgatgg atgacaat

458

<210> 33959

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B12

<400> 33959

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gtgttattga agtcatttct gcctctagtt ctccgacagc aaacatgtac ttcaatgaga 180

tatggaaagt gagaacagtc ttgcaagaag aagcatcaag tgagcatgca gaaatcactg 240

cgatggtcgc agagatgcag gaaacattca atgagtactg gcaacattca tacttatggg 300

tatgcatacc tgttatccta gaccctagat tcaagttcgg tttcattgag ttccgtctga 360

aacgagcttt tggattaaaa tcagcaagct acttatctgg catacgtgaa acactccagg 420

aactcttcaa tgaatactgc agtccagtgg atc 453

<210> 33960

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B2

<400> 33960

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agatcacgtc gatggacatc ttctgatgac tcttatggta gtcagggata tgggtgctaaa 120

agatcaactg atagtttcaa taacagcagc ttcggcaacc aggccggtgg tggttcaagc 180

tttcactcga gcttccataa cagctccagt ggcaatcagt tcggtggtac taccagcttt 240

catggcagct atggtaacag cagccagaac aatcagacag gtgacaatcc gagctttcca 300

cccagcttca gtaacattca gtccggggat ggtctcaggt ttcaatgaaa gttctattga 360

tcacgccgaa aggaccagag ccgatcaaac cat 393

<210> 33961

<211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-015-Q1-K1-B3  
  
 <400> 33961

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gagcaccaac aatggccgcc gcctcctcgt cctcggtcct cctgctgctc ctggccgccg 120
ccttggtggtg catgagcgcc aacgccgcca ccttcaccat caccaacaac tgcgggttca 180
ccgtgtggcc cgcgccacc ccggtgggcg ggggcacgca gctgaaccg ggcgggacgt 240
ggaccgtcaa cgtgccggcc ggcaccagct ccggccgcgt gtggggccgc accggtgct 300
ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360
cgctgtctgg gcagccgncg ctgacgtggt ccgagttcac catcggcggc agccaggact 420
tctacgacat ctcggtcatc gat 443
  
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<210> 33962  
 <211> 334  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-B4  
  
 <400> 33962

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tgcggcggac gcgacgcggc agcctaccg gcgaacggat ccgcggaaga acggatctcc 180
ggcgctgat agatcttcgg cgcgcggcct accgggtgga cggatctccg gtgcctggta 240
tatcctcggc gtcgcggtt gcttcttcac cggcgccgcg gcctgattct ttgacggcac 300
ggcggcctgc cgggtctctc caggcgggca gatg 334
  
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<210> 33963  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-014-Q1-K1-G8

<400> 33963

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agccgcagcg ccaagcctag aagcggagcg cggaacacac gaggccagga agaggaggtg 180  
ctgccgtccc cgcgcgcgcc ctgtgggagt gcggggaatg gggcggcacg gctggacca 240  
gatcggcgct gtggcagcgt tcgtctgggt caccctcctt cccttgctgc ttgtgtcgt 300  
cgtgtggccg ggcgcccagg ccggccatac aagcgagtac cggcgccaac tcggctccgc 360  
catcgacatg cactcgacg ccgatgtctt ccgccctccc ccgggctaca atgcgccga 420  
gcaggttcac atcacacaag gcaatcatga tggcac 456

<210> 33964

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E3

<400> 33964

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tggctgctcc agacaaattc atttggcctt gcaaatgaca acgagctgca cgtagttaca 120  
aggcttgggt gtggagctgt ggcgggaacc attggccaga ctgttgcata cccgcttgat 180  
gtcatcagga gaagaatgca gatggttggc tggagccatg ctgactctat tgttactggg 240  
caaagcaaag aagcactcca gtacaatggc atgatcgatg cattcaggaa gactgttcgt 300  
catgaaggag ttggtgctct gtacaagggt cttgtgccga actcagtcaa ggtggtgccc 360  
tcaattgcca ttgcatttgt gactta 386

<210> 33965

<211> 515

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-E4

<400> 33965

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accttggaga ctctgatgtc ggtagtgag taccgtagg ggtcgttgga ccgggtattn 120  
ncggctcctt cgnngatctt caagggggcc tgcggtggg ccgcatccgt gatcactcgt 180  
cgcgaaaatg ttgcggtgct ttcttcnctg gccgtctgga acccttacct tccggcttga 240  
actntngatt ccagggtctg gcgtggcccg ttatagccat gaaaagataa tctcttttcc 300  
cgagggcccc tcgcccgggc gtctttccgg acttttcta acngnntcgc cgtcttggcc 360  
tgccacagtc ccggcttcnn gggaaatctt aacnncnca ttcccttttc gggggaacgn 420  
nngcgtgatc gcgctatctt gccgggtttt ccccggtcc ctagggaat cggctttacc 480  
catgttgcaa gttgccgttc acatgggaac ctttc 515

<210> 33966  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-014-Q1-K1-E5  
<400> 33966

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cccgaaaccg atcgcaccga cgaggtggat cccaggggaa ggctcctctt taccgccgcc 180  
gatggacgtg ggcctcggcg gcgcgggtag ttccggcaga ggagggggag ggggccggag 240  
cgggagcggg ggcggtcggg acagcccgtt cgctctcggc gggggcggcg cgtcggcggc 300  
tgcgtaggac cggctcgtca gctccggcgt ggaggacgag ctggtggctg cgtcgggagg 360  
aagaggagga ggtggaagac gcgcgggggc gagagcggga ggctgcccgc agggccactt 420  
tttgagcg 428

<210> 33967  
<211> 162  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-014-Q1-K1-E7  
<400> 33967

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gctgtacacg catctacgct tacgaagcgc tgattgcgaa ggcttacgtc taggatatgc 120  
gcacggagct cgaattctct ggccaggacc ttacagcgac gt 162

<210> 33968

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E8

<400> 33968

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gcacctcgc gaaaccaaga gtttactgac tagtacgagc tagctagcat gcagtaataa 120  
taatcatcgt aataataata ataaaacgac ggggctgagc cactttgttc gacctgtatg 180  
aataatgaaa caactgtatg ttccctcggc acgtaattgt gtatgcttgt gcttgtactt 240  
tccgtttgca gcatgggttt aacatcgagc aaatcaagaa atttcgagaa c 291

<210> 33969

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F11

<400> 33969

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agaggatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgcgag 120  
agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180  
tgaagctgag ctaaagcttt ctcgccagga gattgcaa atccaggatg acaacagagc 240  
tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300  
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacatgaacc aagagttgat 360  
caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgcaaaaa 420  
gattgcagaa gttgaaaagc ttaccaaac tgtg 454

<210> 33970

<211> 341  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-014-Q1-K1-F12  
  
 <400> 33970  
  
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 acgcatacac ttgtaccac actaagggtc cagagcctct cttactacac gagaaataac 180  
 caaaatttcc ttaaaagtaa cgatttttaa ctctcaccat tgaactacca ctcatctac 240  
 acatgtaaag tcatttcaga gattcgatct atagtcaatc taaacatgct cttgtttctc 300  
 ctcttagatc tgcaagctct ttcctttgtc tctgggttcg c 341

<210> 33971  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-014-Q1-K1-F2  
  
 <400> 33971  
  
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 ccagacatgg acaaattata aagaagaaac cacacagatg aacaccctat ctcgttcaca 120  
 caccttacc acatgaaacc accatcacia atcagagatt gctgctacgc tcttctttcg 180  
 cctacaatct gccaaagaaa acgtatgatt ccctgtaaac cgacatccct attagctcac 240  
 ccacatcact caatcaagaa ctgacttggt taccggcaac atgcaaatca taagccgaac 300  
 actcctaact gcgtcttgcc c 321

<210> 33972  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-014-Q1-K1-F6  
  
 <400> 33972  
  
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gattttgtgt ttgggaaagt ccgaagaaaa aaggatttgg aatctacctt ttcttttgct 120  
 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180  
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctgt tctttgtccg 240  
 actagctttt tcttcgccaa attaccgaa gcttatgcc a ttttcaaccc aatcgtggat 300  
 gttatgcctg tcatacctgt actctttttt ctattagcgt ttgtttggca agctgctgta 360  
 agttttcgat gaaatcttta ctattctgcc tgccaaattg aatgatgtat tcattccaaa 420  
 aa 422

<210> 33973  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F7

<400> 33973

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 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180  
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctga tctttgtccg 240  
 actagctttt tcttcgccaa attaccgaa gcttatgcc a ttttcaaccc aatcgtggat 300  
 gttatgcctg tcatacctgt actctttttt ctattaacgt ttggttggca agctgctgta 360  
 agttttctat gaaatctcta ctattctgcc tgccaaactt gaatgatgca ttcattccca 420  
 aa 422

<210> 33974  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F8

<400> 33974

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 aaggacaaaa aaaaaagaaa gaaaacaaaa aaaaacacca ccataaaaat caaacacatt 120

acccaaaaaa aaaccaccaa cacaaacagg ggatttccttc taccctcttc catttacttc 180  
 aatcttccat gcaacgcata tgctccgttt cagccctacc tacctaaaaa cctaccccc 240  
 cactcaaaa cagaacctac tccaaaaccc gcggcattcc aaacataatc ccctctcccc 300  
 caaatgcctt t 311

<210> 33975

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F9

<400> 33975

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 gagtacatgc agcccagaaa gatgatgaca tgccaccaat tgaagccatt cttgcaccac 180  
 ttgaagctga gctaaagctt tctcgccagg agattgcaaa tctccaggat gacaacagag 240  
 ctttgatcg tctaacaaaa caaaaggagg cagctctgct agaagcagag aggactgtgc 300  
 aaattgctat ggcaaaagct gctatggttg acgatttgca taacaagaac caagagttga 360  
 tcaagcaaat tgagatctgc catgaagaaa ataaaatctt agataagctg catcgccaaa 420  
 agattgcaga agtgaaaagc tt 442

<210> 33976

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G11

<400> 33976

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 ctctagctca aatgaccagc acttgtctag acttgagacc atcatgaaat gcaaggatc 120  
 tgaagcgaat ctgttactaa actggccgat gatgccagct atgaggtaca cagctaccat 180  
 caaatcttac ttaccaagac ccacaaacta tatgacgagt acgccacgaa tgtggcaaat 240  
 ctgctctttc atgaaactga tgagaaaagg acgtacaaag ttgaagagct gtagacgctc 300



gataactcgc actacgacta ccacaagatt aagctgcgga tgcaaaccga aatgcagggc 360  
 tt 362

<210> 33977  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-G12  
 <400> 33977

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 ggtcaacgag ggtccattct cccttggtca gttcagctctg gtggacattg cgtatgtacc 120  
 attcatcgag aggtttcaga tattctatatt caaccttaag aactttttata tttccaaagg 180  
 cctaaccacac ccttaaaaat tcaatggagg aattgaccat aatggatcct tccccccaga 240  
 ctaaccagga cccacagttt ttactggacc aacc 274

<210> 33978  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-G2  
 <400> 33978

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 gccctgcatt ataagcctgt actgagtgcc ctgtttgttt aagggttcagg gtttaggaat 120  
 ttgtgttcac tcttactcac tttggatttg cgggtggtatt tgtttgcttg agttatattg 180  
 aggtaaaattt aaacgttcat gatttc 206

<210> 33979  
 <211> 84  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-G6  
 <400> 33979

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acaaaaaaaa caaaaagaaa atct

84

<210> 33980

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G7

<400> 33980

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gctggccctg gtggtggtgg ccgtgagcct ggccgtggag atccaggccg acgccgggta 120

cggttacggc ggcgggtaca ccccgacgcc gacgccggcc accccgaccc cgaagcccga 180

gaagcccccc accaaggggc cgaagccgga caagccggcc aaggagcaca agccgcccga 240

ggagcacggg cccaagccgg agaagccgcc caaggagcac aagtccgacg ccgccacgta 300

caccccgagc cccaaaccca cgccgtcgac gtacactccc accccgacgc cccccaagcc 360

gacgccaccc acatacactt cccgccctac gccccacaaa cccacaccaa aaccactcc 420

cactccttcg acgtacacct cgacccccaa gccttcgac 459

<210> 33981

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E12

<400> 33981

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gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtatacgtg tgtgtatgca 120

tgtgcttggt tatgatcgtg gtacgaggac cgaaaaaatg tatgcaactc tgatttactt 180

<210> 33982

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C4

<400> 33982

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aatttggttag attactattg ttccatgttg tcttccacaa catactggac tggttcagcg 180  
gctagtttcc tattcaacca ttctgtaatg aacgaggtat tggatatttag gt 232

<210> 33983  
<211> 387  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-014-Q1-K1-C5  
<400> 33983

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ggcggcggag gaggaggagg agacgtccgg tgccgtccca acggaggagg aggagtcgta 120  
tccgaaaaga gatgaggccg acggcaaacc gtctgcagag gcagagacga cgacgagcaa 180  
ggccgtgtgc aacacggacg gcccctgtgc cgagacgtgc gacctggacg ggcacgtccg 240  
cacgaacggc agcgccctat cggtagcgtt cgtcccggcg agcccgtcgg agcggcggga 300  
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gcggctgggg tccccgatg acccggc 387

<210> 33984  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-014-Q1-K1-C6  
<400> 33984

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atcaacaccg acctcaacga cggcagctac gacggctacg ccggcgacat ctggagcttc 120  
ggcctcagca tctcagatt ctactggggc aggttcccct tcggggagaa cctcggcagg 180  
cagggcgact gggccgcgct catgtgcgcc atctgtaca acgaccgcc cgagccaccg 240  
accaccggct cgcgcgagtt caggggggttc atcgctgct gcctgcagaa gaaccgggcc 300  
aagcgctca cggccgcga gctgctgcag cacccttcg tcgccggccc gcaccgcag 360

ccccctcgctg ctctctncccc gtcataacca caccaccatt tcggcggggtt gggagttggg 420  
accaaagtac ggatctc 437

<210> 33985  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-014-Q1-K1-C7  
  
<400> 33985

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gtcgcagcgg cgctccaggc cgcggggcgcc gcgccgcccgg tggccagcgg ctcatccgc 180  
aaatcctgcc gcgcgacgca gtaccctctg gtgtgcgagc agagcctcgc ggcgtacgga 240  
ggctccccgc cgccgcggag cccgcgggag ctggcgcacg ccgcgctggc ggtgagcgcg 300  
gaccgcgctc gggcagcgtc cgcgtacgtc ggccgcctgt gcggctcccg gtccggatcc 360  
ggcgacggca gcccccgcc cgccgcgggc gcgaagaagg ggtc 404

<210> 33986  
<211> 388  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-014-Q1-K1-C8  
  
<400> 33986

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ggtcgcccct gcagcagcag cagcagcgcc gatgcccgcc tctactact gctcgccgcc 120  
gtcgcaacga cgctacaggc cgcggggcgcc gcgccgacgg tggccaacgg ctacatccgc 180  
aaatcctgcc gcgcgacgca gtaccctctg gactacgagc agagcctcgc ggcatacggga 240  
ggctaccgc cgccgcgata gcccgcaaga gctggcgcac gccgcgctgg cagcgagcgc 300  
agaccgagct cgggcagcgt ccgcgtacga cggacgcctg tgccgattcc ggtccggatc 360  
cggcgacggg agcccccgcc gaggcgcc 388

<210> 33987  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D1

<400> 33987

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cggacaacct ggtgtcgcgc gccgccgtcg ccatgaacct ctactatgcc gccaatggca  180
ggcacccctt gaactgctac ttcaacaact cggcgctcgt ggtgcagtc gatcccagct  240
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gagatgacaa tggggatata cctagttgcg tcctagtaga agtgtctctt gttccatcca  360
gttgatatgc atgataacat ttggagatgc gtgcatgtga tttttt                    405
  
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<210> 33988  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D2

<400> 33988

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ccggacaacc tgggtgtcgc cgccgtcgtc gccatgaacc tctactatgc cgccaatggc  180
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tatggatcct gcacctacta ctgatgtctg tctgatgctc tgctgtgctg tgttgtgtct  300
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<210> 33989  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D3

<400> 33989

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 ctgcttttga gaacctacta aacgtaacat aagatgttgg ctcccggctg ttcttgata 180  
 tttctgagca tctggagttg tctagcctgc caagctctaa tgggtgtattg aaatatcttg 240  
 ctggaaagac attaccgtca catgcagcta tactgtgtgg tttagtaaag aatcaggtgt 300  
 actctgatct ggacgttgct tttgccattt ccgaagatgc agctgtatat aaagcattat 360  
 cacaaactat tgagctattg gaaggccaca cttctctgat c 401

<210> 33990  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-D4  
 <400> 33990

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aaaaaaaaaa aaaaaaaatg ggcgtccttt ttaaagggtc catttttact tccccttgat 180  
 ttcaatttaa attttttttt tttgtgtccc ttaaataaat taccttgtcc ccctttttca 240  
 aactttttaa ttggaaaacc cctttttttc cctacttaaa tcccttttaa aaaattcccc 300  
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<223> Clone ID: LIB3068-014-Q1-K1-D6

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 gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 180  
 catcgcgccc tgcctctcct acgcccgcgg cagggggtcc ggcccctccg cgtcctgctg 240  
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<223> Clone ID: LIB3068-014-Q1-K1-D7

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 tctagcacat ccacgagaaa taataagtga agtgcttaaa gcactgcaag aactgaatgt 180  
 ttactggaaa aagattggac actacaacat gaaatgcaga tggagtctg gctgccttga 240

gagtatgatg cataactgtg atggctatag tgcagagtct gctataattg aaactgatga 300  
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<210> 33994

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D8

<400> 33994

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gcggttgccg cggcgcacgt ggcagacgta gaggtggagg aagagggcga ggccgagcac 180  
ggacacgaac gcggcgacct aggtggtgac gagccgcgcg ttgtggctta tccccgctgc 240  
cgaccgggtg cgtgcgccgc tgccgaacca cgcggacccc gggtcgctcg ccttcacgt 300  
cgtcgctgac atgggtctctg tcgtctctg tctgactgtc ctactctcga caggctctagc 360  
tgctcggcgt gtcgcagcag gtactacgta cggtagcagc caagttgctc ggggtgggttt 420  
ggtggtgaat gagaagttag aagcgacaac 450

<210> 33995

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D9

<400> 33995

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gcgaaggatg agcgaagaga catcaagagc cagctcgcag actaccctac tactgataac 180  
gctcctgctg ttgatgagct gaccacacct atcatggtgc aatacagaca ctcgtatatt 240  
catccagccc caagctacaa gaaacgctac gaaaaacat gatctttata tcaactcact 300  
gctcatgctt atcgggagtg caacttacia gctgattcga agaccg 346



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<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C2

<400> 33996

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catcacggat ttggaaacat tctgccttat caataatgtc cagtggccgt tatctcttgt 180  
aatttcaagg aaggctttga caaaatacca atttgatctt tctcctattg ttccactgca 240  
agcatgttaa tcgtcatctt tattcaacat ggccaatata acatgcattc cggctctgaca 300  
tgattcttag tacaccaatt ctgtcgacat tcaattctat agtctataca tgctccagtt 360  
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<210> 33997  
<211> 85  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H3

<400> 33997

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ataataaatt ggtgtcatga agtgg 85

<210> 33998  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H6

<400> 33998

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gttttgtgcc ggtggctgtg cagccatcgc agattctgga acttccttgc ttgctggccc 180  
cacagccata attactgaaa tcaatgaaaa gattggtgct gctggtgtag tcagccaaga 240

gtgcaagact gttgtttctc aatatggaca gcagatccta gatcttttgc tagctgagac 300  
acaaccagcg aagatctgtt ctccaggttg tctgtgcact tttgatggca cccatgggtgt 360  
cagcgctgga attcggagcg tagtggatga tgaagctggg aaatcaaag gtggtctc 418

<210> 33999  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H7

<400> 33999

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aaacacaaag catgatggaa taacggcatg aacactataa 100

<210> 34000  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H9

<400> 34000

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aatacaaccc agtatacaag aaaactccac tgcttgtcca taatggaaaa cccttatgtc 180  
agtccatgct tattgttgaa tacattgatg acatttggtc acataattca ttacttcctg 240  
ctgatcccta ctagagaact ctggcaaagt tttagggttaa atatgctgat gatgacatgt 300  
tttctgcaag tattgcattc ttccttaaca ataataaata agagcgagaa aagagcatac 360  
agaagatatg gcagcatctc aagggtgttg agaataacg atttggtgat 410

<210> 34001  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A1

<400> 34001

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 aaagaaaaat atataaatat aaataactaa aacatactaa aaaataaata aaaaattata 120  
 ccttttatta atctaaacct taattaaatt aaaataaacc ataaaattac actaaaaaat 180  
 actcctctaa cttttttact tccacaattt ttttttcttc cttctaattt 230

<210> 34002

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A10

<400> 34002

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 tggcaattat gatcctggca atggaattgc agaagataga tctgagggtca atggatctac 180  
 tcaaataaag cctccaaaat ttcaaaaggg tgtattacgt acaaactgta tagattgttt 240  
 ggatcgacaa aatgttgctc aatatgccta tggcctagct gctctaggat accagttaca 300  
 tgcacttggt tctgtagaat ctccagaagt tcatttagac tcccctttgt ctcgacattt 360  
 gatgcatttt tatgaacgga tgggtgacac acttgcttta cagtatgggt gttctgctgc 420  
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<210> 34003

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A12

<400> 34003

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 tggatcatggg cgtcttcgcc gctttggcta aagaaaatgc cctgggttgag agcaaggcca 180  
 tcgacatcaa cccggggcag ctcaagtgtc gcaccaactg caacttctcc ttctcggggc 240  
 tctacacctg cgacgacgtc aaaaaggact ggcaccccggt ctgcaagaag tgcgtcgtcg 300

ccgtgcacgc ctcctactcg ggcaacaaca agttcatgtg caccgacacc ttcctcggca 360  
 tgtgcggccc caagtgc tag atcagagagg aagaacgcgc gcttggtgcta gctgctatag 420  
 cttcgatctt ccggcgctcg ccggtgca 448

<210> 34004  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-A4  
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 gaaaaaggac aaggccgagg gcgtcgccgc catggcgctc tgcgtcaagc aggagcacgc 180  
 tgaggctttc catgcggagc tacgaagcct caagtgcgc ggagacctta catgtttgtc 240  
 cgtgtttcaa ttttaataag agcacttt 268

<210> 34005  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-A8  
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 catctgacat tattttacat gcccacatg ttacattaga ttgtcactta aaagccttta 180  
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 aatttcatta 250

<210> 34006  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-A9

<400> 34006

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ggctctgacg gttgggctcg ggggtcccgg acccgaaccc gtcagctgct ggcggaatgc 120

tcgagctgct cgcgcggcga gagcggggccg tcgagtgcg gccgggggac ggaccgggaa 180

cgggccc 187

<210> 34007

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B10

<400> 34007

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caccgcgagc tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180

cgaagacgat gaaggggtgcg gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg 240

tcgccacctg gtacgacgtg ccccggtgtg agcgccacgt cgcgctccct ggccttatcc 300

ggacgctcaa gatgtgcggc acctacgggg ccaccttcgc caccatcggg ggcctctaca 360

tcggcgctga gcagctcgtg cagagccagc gcaagaagcg cgacttcgtc aacg 414

<210> 34008

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-B5

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ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaacccgg ggcagctcaa 180

gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240

ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacgcctcct actcgggcaa 300  
 caacaagtgc aggtgcaccg acaccttcct cggcatgtgc ggccccaagt gctagatcag 360  
 agaggaagaa cgcgcgctgc tgctagctgc tatagcttcg ttcttcgcgc gncggccggt 420  
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<210> 34009

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B6

<400> 34009

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 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240  
 ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacgcctcct actcgggcaa 300  
 caacaagtgc aggtgcaccg acaccttcct cggcatgtgc ggtcccaagt gctagatcag 360  
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<210> 34010

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G7

<400> 34010

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 atacatgaac agaaacatga acacaagatg gatcatttag ccaaataacc actactacac 180  
 taccataatt tctaaaacag agcttcaaac aacacagaac acaatgatgc atccaaagct 240  
 caacacacaa actcaaccaa tatttagatt ctcaataata aagccctaca tatatccaag 300  
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<210> 34011  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B8

<400> 34011

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tttaactaaa gaaaatgccc atgaatgaaa acaaagacat caacatcaga cccgtcgcgt   180
ctcaagtgct gcaccaactg caacttctcc atctcgtagc tctacacctg cgacgacgtc   240
aaaaaggact gccacc                                     256
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<210> 34012  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C1

<400> 34012

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cacggggtttg gaaacattct gccttagcaa taagggtccag tggccgttat ctcttgtaat   180
ttcaaggaag gctttgacaa aataccaatt gatctttcgc ctattgttcc actgcaagca   240
tgttagtcgc cagctgtgtg cagcatggca aatacaacaa gcattccggt ctgtcaagat   300
tctagggaca ccaattctgc ggtcatcaat tctttgtcgt agcatgctca agtttgtaaa   360
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<210> 34013  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C10

<400> 34013

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taagaggcca ctgctaccct actacgtacc ctctcttttg tgtgctgcca tccgtccccg 180

ttagacgata gaggagagaa taacgcagag ctctctgtct ccggcctgtc ttctgccgtc 240

ccggccggtt aatttactag tgtgttcgtc ctatatgttt agcagcagca ggtgtattgt 300

gcgggtatgt aatgggtattg caactatatt ggggtgtaaaa ccataataaa tgtgggcaaa 360

tatgcaagg 369

<210> 34014

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F12

<400> 34014

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gcaccatttt ttaccaattc gtgggcctta taaagagtgg gaaaaatggc tgattagcat 240

caatttattc tatactgtaa ttatgataat attacttcat cacaatactg tagatttttt 300

tttatcgaac gcagaagagt tgcgtatcat tatactaaaa agaaaaaagg tctaaaacag 360

accgatacaa accgccgaag cggtaaaaaga acgaaaataa aagagggtta caagacatca 420

gagagaaccc g 431

<210> 34015

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F3

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tggtcgccgg tgctgtagca aatgaccaga tcttcaccac ttcaggtgtg ccatttgggc 240  
ggagttcgcg tgagccaagt taccgctcg aattccatcc tgttgattca ccattccatc 300  
cagagaatgg tcaagaatcg gtaccaatgg ctagtcatga tgggaaacgt tataaatgct 360  
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gtataat 427

<210> 34016  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F4

<400> 34016

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atcaacgtcc aaatactcac cttccttctc taatccacta tgctgactct atattcattc 180  
ttcatcttcc tcttgatcac caacgtgta tcacatgacc agatctctac cacttcaact 240  
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<210> 34017  
<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-013-Q1-K1-F5

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ctccgatggc gaggagtctg aggtggaaga ggcgggtggc atggagtcgc agaccatccg 180  
ccacatgacg gaggatgact gcgccgacaa cggcatccct cttcctaacg ttaactccaa 240  
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cgccgcctcg aaggccggtt ccgacgacgt ggggtgccgnc tacgccaaca gcaccgtcgc 360  
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tttc 424

<210> 34018  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F6

<400> 34018

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ccgccacatg atcgaggatg actgcgccga caacggcatc cctcttecta acgttaactc 240  
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cgacgccgcc tctaacgccg gttccgacga catgggtgcc gcctccgtca acagcacctg 360  
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<210> 34019  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F7

<400> 34019

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caatctttca gtgtgtgatc cctgaaacaa tctttgaagt ttctgaccgg cagaataatt 180  
ttatttaagt attttagttg aatcagtgtg cttttttttg gatattctgc actcatgaag 240  
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<210> 34020  
<211> 244

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-F8  
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 tcaccctatc actcaactat atcaaactctt ccaagatctt actgtcctaa tccatgatca 180  
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<210> 34021  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-F9  
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 agggacttga tgttggaagg gtgtattttg tgatcctcga gatgtccctt gttacatata 120  
 ttgattcgag tgctgttcaa gctcttaaag acttgcacca agaatacaaa gcacgccata 180  
 ttcagattgc catagctaac ccgaaccggc aagtgtacct tctgttgta agatcgggca 240  
 tcattgactt ggtaggagct ggggtgtgct ttgtgagagt gcatgacgcc gtgcaagtgt 300  
 gcctacagca cgtgcagaat tcattctcaa atgcgttgaa gctaccctgt caggcatcag 360  
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<210> 34022  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gagcaccaac aatggccgcc gcctcctcgt cctcggtcct cctgctgctc ctggccgccg 120  
ccttggtggtg catgagcgcc aacgccgcca ccttcacat caccaacaac tgcgggttca 180  
ccgtgtggcc cgccgccacc ccggtgggcg ggggcacgca gctgaaccgc ggccggacgt 240  
ggaccgtcaa cgtgccggcc ggcaccagct ccggccgcgt gtggggccgc accggctgct 300  
ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360  
cgctgtctgg gcagccgncg ctgacgctgg ccgagttcac catcggcggc agccaggact 420  
tctacgacat ct 432

<210> 34023  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-G10  
<400> 34023

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cgtgctcaag gtcacatcc tcggcgacag cggggttggg aagacgtctt tgatgaacca 120  
atatgtgaac aagaagttca gcaaccagta caaggctacg attggggcgg atttcctcac 180  
caaggagggtg cagttcgagg acaggctctt cactctgcaa atatgggaca ctgctggtca 240  
ggaaagggtt cagagtcttg gcgttgcatc ctaccgggga gcagattgtt gtgtcctagt 300  
ctatgatgtt aattctatga aatcgtttga taatcttcac aactggcgtg aagagtttct 360  
aattcaggcg agcccatcag atcctgacaa tttccctttt gttctgttgg gtaacaaagt 420  
tgatgtagat ggt 433

<210> 34024  
<211> 399  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-G11  
<400> 34024

aaaaaaaaa aaaaaataaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaagag 60  
gggggaaaat tcaacaatc tatggaataa ctcaaattta ctaacacgtg cactcgatct 120

tgattaaggc accatagatc tattgtaaca taaactattg tcaataatgc aacatcataa 180  
 tgacctggat atccccgatcg aaacccccct ttataccact tcaacaactg attttttttaa 240  
 cggattttaa aatggcttgt taagattaaa ccgaagagga tttcccaaca atttcgcaaa 300  
 ctgactttac ctttttgctc gccctttaag ttcactctaa cccccggatg atctgtactt 360  
 ttccgcaatt ttacgcctcg aatttcaata taattcaca 399

<210> 34025

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G12

<400> 34025

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 tgctgtcgaa aggcaatttg aagggtcaaag aaatacacca ctttactcaa gatgatctaa 120  
 tgacagaaga tgttttcatt ctggactgtc acacgagcat atttgtttgg gttgggtcagc 180  
 aggtggatgt taaaggcagg ttacaagcta tggatgctgg ggagaaattt attgtgcttg 240  
 atttttcttat ggaaaacctt gcccgtgaaa caccagtttt caccgttatg gaggggaatg 300  
 agcctccctt tttactaga ttcttcacct gggactccgc aaaatcactg atgcatggca 360  
 attcatacca gaggaagctc gccattgtaa aagggtggagg tgctccagca ttggataaac 420  
 cgaaaaga 428

<210> 34026

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G2

<400> 34026

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 atcactgaag taaatgaaat cttcaaagat cttgctgtgc tagtccatga tcaaggagca 180  
 atgatagatg acattgattc ccatatagag aatgctgttg tagcgacttc gcaggctaaa 240

ggtcagcttt caaaagctgc caagactcag aagtcgaact cttcgctgat atgcttggtta 300  
 ttggttatct tcggcgtggg cctgctcata gtgataatag tacttgcagc ataaaagctt 360  
 ggaaggcagc tgaggttccg atgatcgagc ttattgcgat gaattcctta ttattatattt 420  
 tttt 424

<210> 34027  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-G3  
 <400> 34027

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 attgactcag atcaaaagca gaaagaagtt gaggagattg aaagtcagaa tgatgaactt 120  
 caggtagatg aacagaaaaca tgaagacaag agggatgatt tagccaaaga accactagtg 180  
 gagtaccaga atttcgaaaa cagagcttca aacaacacaa aagacaatga tgcattcaag 240  
 gttgaacaaa cagaggcagc caatagttag atttctcaaga ataaagccct acatatatcc 300  
 aaggaatcca cccaagcat tatggctatg aaggttgaaa acattaagga aacaagtga 360  
 ggaactgaag aagatgatgc tgccaaaaat gataacaaag atgaacagga gaatgcagaa 420  
 aatgttgata tag 433

<210> 34028  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-G4  
 <400> 34028

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 cctaatacaa aatccaattc tatgttcggc ttataaacca tgatgcgcat gtctcacact 120  
 caaatgaatt cactcaaagg caccaccact catccagcct actgctcaat tacactcatc 180  
 actaccaaac ttaccaaatc cacacatata aaccatagac aaactaatac atctatcttg 240  
 attatatacc tactgatcca tttcctttca taattcactt atccatctac tctcgataat 300

taccataaca aacaagacct cataactccta actatcta

338

<210> 34029

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G5

<400> 34029

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ctgccgggcg cgccgcgcag cagggcgtgt ggagcatcat caccggccc atgttccaga 120  
gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc tacgacgcct 180  
tcatcgagge cgccagcaag ttccccggct tcggcaccac cgccgacgag cagacgcgca 240  
ggcgggagct cgccgccttc ttccggccaga cgtcccacga aaccaccggt ggatgggcga 300  
ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag aaacagacgg 360  
acccacccta ctatggacga ggaccatac agctaactca taagtacaac ta 412

<210> 34030

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F10

<400> 34030

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ctcaatattt caaccccaga cagctatctt tcaatccaaa cactgcccac tataaaccat 120  
aagactttcc aaattccata tatctattca aatgctaacc aaacttttca taactatctc 180  
ctaaaatcca tataacacct tatccacaat ttcatacatc tcaatatact tcaaccattc 240  
cacattccta ccatatctgt catcatatca ctatctactt atctaacagt ccatcatccc 300  
taatcataat tcaattcatc aactcctaca gaacatccag aattcatcta ctt 353

<210> 34031

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D2

<400> 34031

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tcgtcctcat gagatcttgg agatgactag taagttcatg accgaaccgg ttaggatcct 120  
tgtgaagcgt gatgagctga ccctggaggg catcaaacia ttctttgttg ctgttgagaa 180  
agaggagtgg aagtttgata cactttgtga tctttatgat acactcacca tcaccaagc 240  
tgttattttc tgcaatacta agagaaaggt ggattggctc actgaaaaaa tgcgtacaaa 300  
taacttcacc gtatcagcta tgcacgggtga catgccccaa caagaaaggg atgccattat 360  
gggtgagttc aggtctggcg caactcgtgt gctaataact acagatgttt gggct 415

<210> 34032

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D3

<400> 34032

gtcacctgca tcatcatgaa caagtggatc ttccagaaac tggatttcaa gttccctcgc 60  
accgtgtcct gcgtccactt catctgctct tccattggag cttacattgc aatccatgtc 120  
ctcaaggcga aaccctgat tcaagttgaa ccggaggacc gctggaaaag gatatttcca 180  
atgtccttcg tcttctgcat aaacattgtg ctgggaaatg tcagcttgcg ctacatccca 240  
gtctccttca tgcagacaat caaatctttc actcctgcaa ccacagttat tctgcagtgg 300  
ctagtctgga gcaagcattt cgagtggcgc atatgggctt cgctgggtccc tatagttggc 360  
ggaatactcc tgacttcggt gacagagctt agcttcaaca ttttcggttt ctgtgctgcc 420  
atg 423

<210> 34033

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-D4

<400> 34033



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tgctgtgtgt ggcagcggcg ggcagcagct cggaggccgc catcacctgc gggcaggtga 120  
gttcggccat cgcgccctgc ctctcctacg cccgcggcac ggggtccggc ccctccgcgt 180  
cctgtgttag cggcgtcagg aacctcaaga ggcgcgccag caccgccgcc gacaggcgcg 240  
ccgcctgcaa ctgcctcaag aacgcgcgca ggggcgtcag cggcctcaac gccggcaacg 300  
ccgncagcat cccctccaag tgcggcgta gcatcccta caccatcagc accttcaccg 360  
actgtccag ggtgaactaa aacctagacc acgcgcgacg acngnccgct gatcg 415

<210> 34034  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-013-Q1-K1-D5  
<400> 34034

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cagcacttgt tcggaagaaa aagaaggtag aacacgctaa caagacaaca aggatcatgg 120  
ggcgcggggc cggccacctc ctgctgccgg cagcagccgc ctgcctgtgg gcgctgtcgt 180  
gcgcgtgtgt gctgcacgcg tcccctcacg gcgcgggcgc cggcggcctg ctgagggtcg 240  
ggctcagcag gcgcgcgggc gggctcgacc agcgcgcgct ggcggcggcc aaggccgcga 300  
ggcagcagga ggcaagccgt ctcgagacct cgggcggcgg cgacgtccct ctcgtcgact 360  
acctcaacac ccagtactat ggggtcgtag gcatcggcac accgncgcag aacttcaccg 420  
tcattt 426

<210> 34035  
<211> 318  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-D6  
<400> 34035

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gaataataaa aaaaagagga aaaaaactga aaagcaatct taaactacaa ccaggataaa 120  
ctaagccatg gcgccctttc tttcttcctg cctttgcacg tcgttctctc tatacgcttt 180  
cttctgcact ggtgctataa acctaaataa tggggccagt atcttcaa at ccagtcacgc 240  
taaattcccat tgcgttacta actttactag gggagtgcgc gctctcaatt tccgtaacgc 300  
cgacttcac at atgcaa 318

<210> 34036  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-013-Q1-K1-D7

<400> 34036

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agcaacggcg tggaggtgaa gagctacttc aacaagtccg ccgggagggc ggcgagcaac 120  
aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtac 180  
ggcaggaaga agcacgcca gagcgagggc gcggcgggcg cgggcgccac ggacaagcag 240  
cggttcaaga cgctgccggc gtcggagggc ctgccgggg gccaggccat cggcggttac 300  
atcttcgtct gcaacaacga caccatggac gagaacctca ggaggagct gttcgggctg 360  
ccgtccaggt acagggactc tgtgcgtgct atnccggcg gacttgccct ctctctctac 420  
aactac 426

<210> 34037  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D8

<400> 34037

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gggcggcggc aacgcccaga agtccaagat ggcgcgcgag aggaacgccg agaagaacaa 120  
gggcggcaaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgcaagat 180  
ctgcatgcag accttcatct gcaccacctc cgaggccaag tgcaaagaac atgcggaggc 240

gaggcatccc aagaacgacc tctaccagtg cttccccccac ctcaagaact agtaagcagc 300  
agaagcatat gctctgctca gctaaaaaga caagtactac atata 345

<210> 34038  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D9

<400> 34038

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cgctacttcc accatcgaga atcataacta aacactctct actaacatcg ctcatcacac 120  
acactgtaca cacatactta tttactccat caccacgtca atgatcatcc attatattat 180  
atactctgtt accttcatct caaccatttc caatcctgct ctataagaac attcaaattc 240  
catctaaaca aactacgata ttttctagat cttccctcac 280

<210> 34039  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E1

<400> 34039

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cgatggacct gatgactgcc ctgcagctcg tcatgaagaa gtcaggtgct catgatggcc 180  
ttgtgaaggg tcttcgtgag gctgccaaag ccatcgagaa gcatgccgct cagctctgcg 240  
tgcttgccga ggactgctac tagcctgatt atgtcaagct ggtgtaggct ctttgcgctg 300  
aacacaatgt ccatttggtt actgtgtcta gttccaatac tt 342

<210> 34040  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E10

<400> 34040

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tccctgccat catatcgtag gtgagcccgg ccgagcgaga ggcagggaga ggcatggctg 120  
ctccgaagct cgcgacgcgtg gcgctggccg tgctcctggc ggcgaccgtg gtggctcccc 180  
cgcccgcggt gcgcgcggcg aagtcgtgtt ccaccgcgta cagtacgctg ataccgtgcc 240  
tgctgatcgc acagattggc ggg 263

<210> 34041

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E12

<400> 34041

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cctcgaccat tctcacacaa ggcgatgtct tcccaaaact ctgaatgtca aattcaataa 120  
attcaaccaa actcaataaa cttctcaatt aactattact ctcttaacat acccaaattc 180  
catttcattt aattattgac tcccataaat gacttaacta cattacaact atacttctat 240  
actatacatc caaaccacat ccacattaac taacttaacc caatcactca tcaaataata 300  
ccctaataat ctttactcta taccaacttt tctaaattac ttcatacttt tattataatt 360  
tacatcctcc aaccacattt caaataccac tactttttaac gttattttac ttat 414

<210> 34042

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-E2

<400> 34042

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cggggcaggc gtacgtcgag gagcacctga tgtgagagat cgaaggacag catctcagcg 120  
ccgccgccat cgtcggtcac gacggcagcg tttgggcgca gtccgagagc ttccccgagt 180

taaagcctga ggaggttgct ggtatcataa aggactttga tgaacctggt actcttgcac 240  
 caactgggtct tttcgttggg ggtacaaaagt acatgggtgat ccaagggtgaa cctgggagttg 300  
 tcatccgagg aaagaaaggc actggggggca ttactatcaa gaaaaccggc atgtccttga 360  
 ttatnggtgt ctacgacga 379

<210> 34043

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E4

<400> 34043

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 cgggtaattc ctacggcctg gggggaaaaa agggcattaa cttattatag agattgagcg 120  
 atttgactat tttttttttt aaccgtacct atatctcatt cttacaaaac ttacacaggg 180  
 ttcagcctag agagaacagc tgttatcata ggagactctg actagcctaa ggctatggga 240  
 actactggtc ttttctgtgg aggatcctag ttcgttgtga tccaagggtg acctgtagtt 300  
 gatatactaa gaaagatagg cgctgcgggc attactatcg ataagaccgc catgtacttg 360

<210> 34044

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E6

<400> 34044

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 gagttttcgt attcctgcag tacaggtaca gccacaacgg ctcggaatt ccatggctct 120  
 attggattgg atggaaaaat tccttttcat ctaagtggaa ggatcctgta tttttttact 180  
 aggaattctg ctccctcgaa aagtttttct ttggggaaaa ccaaaataaa aagagaatgg 240  
 aagaattctt cttattccat aagaaaaataa aggaacccta gaattccatt tgcataaggt 300  
 acattacgcc atacaatcta aatataaaaag gggatatggg caattaatga ctttgaaaac 360  
 gcgaaatagc tgatgaggga agttgctgtt gagaaatagg aaagtggaat gaaa 414

<210> 34045  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E7

<400> 34045

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120  
aataaaaaaa aaaaaaaaaa aaaaacataa aatttttaaat ttcaaaaatt ttaattaaat 180  
taaattgaaa attttttttt ttttttaagt tttcttaaatt taaattaatt aactttatgt 240  
tttaaaaactt ttttaattta aaaaaccttt tttttcccca atttaattac ttttaaattt 300  
ataaaactttt tgttacctca tattttat 328

<210> 34046  
<211> 291  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E8

<400> 34046

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gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaag ggcgcctttt ttaaaaaatc aaaatttaatt tccccttctt ttcaaatcaa 180  
aatttttttt atggggcccc caaaattaaa ttaattgccc gtttttttaa aacttcataa 240  
ttggaaaaac ctttgattta ccaaatttaa ttacttttga aaaaatcccc t 291

<210> 34047  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D12

<400> 34047

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taaaattctt gtttcttaat aaattgcagc cctttgttgt gttcttggcc agcttagttg 120  
 attttagttt aagcttcttc acccttagtt gtgtttatgc tctgcttagt tgatccatta 180  
 ctgcaggtct tggctgaact tccagctcca gttctaaatg gtacaatgct tacagtcgaa 240  
 gatttgcata aggaactaaa atgcagtatc aacatcaaac acagggatga gttcgatgaa 300  
 gaaaaggagc ctgacagaat gggtcttgtt ggggtggtctg gccagttga taagcaaacc 360  
 actaataatg gtgagactaa atcagttcca tcttcatcca atacagaaga tgtggatggt 420  
 act 423

<210> 34048  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-E9  
 <400> 34048

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 atcataacat tacatctatg agggcttact ccatcttaca gtcagcacct accatcttat 120  
 cttcatctga cctactatcc ttactactat atttacactg tataacataa aaactatcct 180  
 acaaaataaa tttcaaaatc tctacactat cgtttaattc atcacttttc aaatactctc 240  
 tttc 244

<210> 34049  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-A9  
 <400> 34049

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 tacattgaga ctggcgctct tgggtggcaag ggcagcgagt cccacaaggc tgcggttact 180  
 ggcgacacgg ttggagacct attcaaagac actgctggac cgtcgtgca tgttcttata 240  
 aagatgctcg ccacaatcac gctggtcatg gctccgatat tcttgtgatt aaccagacca 300

ctcatcaagc ttgctattaa ccctgcggag atgtacctat gcgaccaggt agatgagggtg 360  
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 catgct 426

<210> 34050  
 <211> 429  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-B1  
 <400> 34050

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 tcgacgcgcg cggtaaaacc accatcctct acaagctcaa gctcggcgag atcgtcacca 180  
 ccatccccac catcggtttc aatgttgaaa ctgttgagta caagaacatt agcttcactg 240  
 tctgggatgt cgggggtcag gacaagatca gacctctttg gaggcattac ttccagaaca 300  
 cccaggggtct tattttttgtt gtggacagca atgaccgtga ccgtgttggt gaagccagag 360  
 atgagctcca caggatgctg aacgaggatg agctacgtga tgctgtgctg cttgggtttt 420  
 ccaacaagc 429

<210> 34051  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-013-Q1-K1-B10  
 <400> 34051

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 cctcttagtg catccaacct catatctctt ttattgagac accttaattc ttttactgg 180  
 ccacctatct acaacttact gactgggaaa tccatcctt taccctaata aatccctttg 240  
 cttcccatcc tcatttcccc agctgccctt ctacctttca gccctgacc tatctccctt 300  
 cacatcagtt ccgtccctt ttt 323



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 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-013-Q1-K1-B11  
  
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 ggcctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180  
 gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggtctt 240  
 gtcaccttct ccacagagga cgcgatgcag aacgccatcg agggcatgaa cggcaaggag 300  
 ctggacggcc gcaacatcac cgtctactag gcccaatccc gcggcgccg ttgaggctgc 360  
 ggcggatgcc ggtacggtac tggccgtgga tgccgcagct a 401

<210> 34053  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-013-Q1-K1-B2  
  
 <400> 34053  
  
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 catcagagat gtccagtatc ttttaactgc tcccaagata tacaaagagc acaggtcaat 120  
 cacgacaaag gatttctta gtgctgttcg acaccacctc caggagcagc gtgaggcctc 180  
 accgttgctg catgatgtca tcaattgcaa aaaggatgat acaatcaagg acatcatact 240  
 gaagctggac tctgagaaga tccacaggat ctacgttgtg gatgacaaag ggaacaccga 300  
 gggagtcatc accttgaggg acataatctc caagctggtg catgagccac gccattactt 360  
 tggggatttc tttgatggtg ttgttccctt gcctgcaaac agcaccgtat gacacatctt 420  
 cgc 423

<210> 34054  
 <211> 433  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-B3

<400> 34054

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tcgatctgtg acgaccgccca agccgaagcc gaaggcagca gcagtcgtca agttcatcga 120

tctcggcatc gacgaccgcc cgtccatggc gcggggcaag gtgcagctgc ggcgcacatcga 180

gaacccagtg caccggcagg tgaccttctg caagcgccgc gccgggctgc tcaagaaggc 240

cggggagctc tccgtcctct gcgacgccc cgtcggcatc atcgtcttct ccgcgcacgg 300

caagctctac gacctcgcca ccaccgggac catggaagag ctgatcgaga ggtacagggc 360

tgccagcaac ggngaagcag ccgacggctg cggcgacaat aacagaatgg acccaaagca 420

agaaaccatg gtg 433

<210> 34055

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B9

<400> 34055

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ggatggtgcc agtttccagc agagtgtcca gaataaagaa caagtgaggt tctacttcga 120

agcgtgaaac cttttgctca ctttgcgagt aatcgtaaa aggataaaca gttttggagt 180

gcggtccaac cgtgccgtag aagcccgtcc tatgatccga aggcaagttg gcattcttgc 240

atcgaatagt tccattatct tctcaaataa gttgggatgt ttgaagcgat tttagttttt 300

ttttggtcat attctttagg tgtggtgtat agatatattg cttattcttg ttgtaaatta 360

gttcatatct ggtactggta taatgacaac tattaatacc ac 402

<210> 34056

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C10

<400> 34056

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gcgagtatct ggcaacgctc cggatgaatta cagcaactgg aggtgaggcg accgctgcgg 120  
tgccgtgcat caccaccctg ccccggtgcc cccccgctcc acgacgacgc ggcacccgca 180  
cgtagtccgg acggcgagca cttgagctga gtcggccgcg cttcggcttt ctgccccgag 240  
ttgctcgggtg ccgcgtcttc cctcttttcgg cggcgtgatc tgcgctctcg cgctaagaga 300  
gctgtcgtct cccggctccg gcacttgac aagacctga gctgatcggc cggccttctg 360  
cgcgacgggtg aatctccgct tctcattttg ataatttccc gcaagtcccc tcacttcgga 420  
tttgactgaa g 431

<210> 34057

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C11

<400> 34057

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cagcagcaag agcgtagtgt gtagtggtcg gaggagcacg cgcagtagga agactgatgg 180  
tgtacagtga ccagagttg ttgcacctaa ggattgtgtt cctggaattg agatccttca 240  
cagaaaggcc aaacaggtca aattccatgg aacaattatt atcagtcgta aactgacgaa 300  
cagaaagaag attcttaatg atatcagggtg taacaagaac attgctaaga taaaactggc 360  
cagaaagcac catatc 376

<210> 34058

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C2

<400> 34058

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agggccaaact gctcctgggc cttgtggctt cgcttggcgt gctggcattc ttcttccttg 120  
gcgggtacca agacttctgg attggcgacc tattcggcgg cggcacgccg ggcgggtacc 180  
cgtgcaagcc cccgaaggac ctgaccggcg accactttca ctatgggggg cttggcaacc 240  
ccggcaccgg gcttaaacc ttcaagaact tcctgggctt gggcgtcgtc aacacgtttc 300  
cc 302

<210> 34059  
<211> 190  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-C3

<400> 34059  
aaaaaaaaa aaaaaaaata aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
agaaagaata aaaaaaaatg aagagataaa aaaaaaaata aatcaactaa actattattt 120  
taaaatTTTT tatttttaat actattaaat tacttatttt ttcaacttta caaatTTTaa 180  
aaaccttata 190

<210> 34060  
<211> 241  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-C6

<400> 34060  
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aactggtact ggcttaagga cttaaattta caacctgcat tattctatcc ttagccaggt 120  
acaagaattt ctattcccc aacttttcaa cggcgcgact gccaaacgct tccccttcca 180  
aaccceaaaa gacctgaacc gcatccaatt tcaataatgg ggccttatca accccaggcc 240  
c 241

<210> 34061  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C7

<400> 34061

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gtcaagaggt tgaagagtgc aaagaatggc acagaagcag aatttgcttc agaagtcgag 120  
atattgggaa gaataagaca caaaaacctc ctgagttttc gtggatattg tgcggatgga 180  
cccgaacgga ttctggtgta tgactttatg gcaaactcaa gtctctatgc acatcttcat 240  
ggaccacatt ctgctgagtg tctccttgac tggcggagga gaatatctat tgccatcaac 300  
actgctcggg ctctcttgta ccttcaccac tatgcaacac ctaagataat ccatggaagc 360  
atcaagacca ccaatgtgtt actggattca gatttccagg cacatgttgg cgatttcggt 420  
ctga 424

<210> 34062

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C8

<400> 34062

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ctagtcaactg aagtacccaa caaatgacgg tagtgccctc acttgaccta tcgcagtaca 180  
tttccctgtc gtacaagatc tcatccttcc cattcttcta ccaactgtat cactgcctcc 240  
acacacgcgc catcta 256

<210> 34063

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A8

<400> 34063

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gcgggttgct cgggctggct cctcgctcg atggtgggga tgtaccagca ccaactccgc 180  
gacgaccct tcgacaccct aagcggcggc cactgcgagg tacatggcgg cggacagccg 240  
cggcagcggg tcgaggcgct tgccgacgga agaagcatgt tgcgcggcgg gggaagcgg 300  
atagttggcg ccgcggtgg agatctaggg gtgctagcgc ggtggatgcg ggaactcgca 360  
gcggatcccg tgggtccact tcccgcgcca tcagagcaca cggtgaggaa gcggcacgtg 420  
ctggcat 427

<210> 34064  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-D1  
<400> 34064

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accgtttcat tcattcacgg gatatactat ttcatataaa cttacattac aactacatat 120  
tctcaatccc ataccctaa ctttacttta accacataac ccttttaaaa gcatattctc 180  
aatctccttc taatactgca taaacattca tcatgcaa atcacttttt gctacatccc 240  
attatcctta atgcatacaa tcaaactttt cacttctaca accacactta ttataaaatt 300  
actattc 307

<210> 34065  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-013-Q1-K1-D11  
<400> 34065

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aggctaacta aatataccag aaaatacata cacaaacatt caatgatatc acgcaaaaaa 120  
cctttacctc aacttttaca tctctcacct tcacaatccc ctttcacctt tggttgtacc 180  
gctacaaacc atattttaat gcattacttt tcaatggcac tctttccagc acttgaaaat 240  
tccctataac atgctccatc ctgccttctt acatcttcaa cccatatgaa gacatctgta 300

gaacaaccac acatagagca atcttcccat gatcattttc tctttccaaa acttactaat 360  
tctcaattcc atattttatt agatttcatt 390

<210> 34066  
<211> 335  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-012-Q1-K1-G5  
  
<400> 34066

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ggtagctaac ccaaattaac aactctatga ttaacacctt gtgcaaatac taagaccaca 180  
gcttctgtca acttagttgc tatgaatgta atccctatct tttcatctga catcacatag 240  
acccagacaa ttcaactgaa ctgaataaca tttagaacaa ctgaaagact accaagatgc 300  
atcttcacaa aggactttta acacggttgc tatga 335

<210> 34067  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-012-Q1-K1-G6  
  
<400> 34067

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cctcctcctc cttgccccgc ccctcgccgg cgcgtgggga aaggagggcc acatcatggt 120  
ctgcaagatc gccgagaagt acctgtcgga gaaggcggcg gcggcgggtga aggcgttgct 180  
gccggagtcg gcgggcgggg agctgtcggc ggtgtgcccg tgggcggacc aggtgcgctg 240  
gcactaccac tgggccagcc cgctccacta cgccaacacc cccaagtct gcaacttcaa 300  
gttttctcgg gactgccaca attctcgtgg ccagcaaggg atgtgcgtcg tcggggctat 360  
caacaactac acggaccagc tctacagcta cgccagaag acttcgtata acctgacgga 420  
gagcctgatg ttctggcac acttcgtcgg cgac 454

<210> 34068  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-012-Q1-K1-G7

<400> 34068

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cgccgtggga ccaacgttag tgctagattg gatgcccgag agaagaagct taacctcccc 180  
atccttccca ccactacaat cggttcgttc ccacaaaccg ttgagctcag gaggggccgc 240  
cgtgagtaca aggcaaaaaa gatctctgag gaggaatacg tcactgccat caaggaggaa 300  
atcaacaagg tcgttaagct tcaagaagag cttgacattg atgtgcttgt gcatggcgag 360  
cctgagagaa acgatatggt tgagtacttc ggtgagcagc tctccgggtn tgcgttact 420  
gccaatggct ggggtgcagtc ttatgggtca agg 453

<210> 34069  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G8

<400> 34069

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agaagaccac cgtcgccagg ttccggcgcc gcacggcgac gtgcagggcc agcagcggcg 180  
gtggcggtgg ccggtgcggc gaaaatgatg gcctcctttg gctgccccgg cgggacgtga 240  
tgctcaacgg cctgtccagt gtcgcccgcc ggtctgcctg gtacccgggc gtcgcgtccg 300  
gcgcggatgc ggtgtgcacc agggccgaca aggtgaacga gaagaccgtg cagtgcacgg 360  
acccggccgg gcagcttccg tgccctctgg tgtcgccgac tgaccccggt gacttcaagg 420  
actccatggg caaccagctg tacgacccca a 451

<210> 34070



<211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-G9  
  
 <400> 34070  
  
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 gttattctga tgtcctctac ttggacgctg ttcacaagaa gtaccttgaa gaagtttctt 180  
 catgcaatgt ttttgttgtc aaggacaatg ttatttctac ccagcaata aaaggaacaa 240  
 tattacctgg tatcacaagg aaaagtataa ttgacgttgc tttgagtaaa ggcttccagg 300  
 ttgaggagcg gcttgtttca gtggatgaac tgcttgatgc tgatgaggta ttctgcacag 360  
 gaactgctgt tgtggtgtct cctgttggga gcattacata tcaagggaaa ag 412

<210> 34071  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-H1  
  
 <400> 34071  
  
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 cacagcctga cttcctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180  
 gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 240  
 aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaacacg 300  
 ataaaatgga cttgcctact tttgcaccga agaaactcat aagtaatcca atttccgagg 360  
 acacgaacgg aagtaagctg tttttggtat tcgtatcgga attagccaga agaagaaacc 420  
 attttcaactg cccttcattc ttg 444

<210> 34072  
 <211> 211  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H10

<400> 34072

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ttgagctgac ggtatattcc aacggtaggt tgtaacagat gttcctacac ccacaaatta 120  
cctacatgac aatgtctttc gcccgatcg ctctctgtg gccggacgtt ttatccaaca 180  
cgagcggcac tgcaccaatg aggacccaca g 211

<210> 34073

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H11

<400> 34073

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agctaactct aacttaagag gcctggttg agttcacact tcacggggta aaatagcagc 120  
ccaaattaca tgtactgata ggatcttaag gttttaatga gttctgcttt gtttttcaat 180  
tattatatag ttaatatattg tagtg 205

<210> 34074

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H2

<400> 34074

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cacagcctga ctctctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180  
gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 240  
aacttttgca gctatatgaa atgcactttg gaaaatcacg tcttgaggac gaaaaacacg 300  
ataaaatgga cttgcctact ttgacccga ataaactcat aagtaatcca atttccgagg 360  
acacgaacgg aagtaagctg attttggat tcgtatcgga attagccaga agaagaaacc 420

attttcactg cccttcattc ttg

444

<210> 34075

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-012-Q1-K1-H3

<400> 34075

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gaggtggagg ctgcggcggc nggtggcgct gcggtggagg cggctgcgga gtggctatat 180

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cgcattcttc attttt 256

<210> 34076

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H8

<400> 34076

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tttcgtacct ttagtaggct tagtatttcc ggcaattgca atgacttcct tatttcttta 120

tgtgcagaaa aataagattg tctagaaacg acggggccaa attttctcaa tgtatttcca 180

ggatcataat acagatattt ttttgcgtaa gtactataat atgatagggt atgtagctct 240

ttctacacac aaatgaaaaa cgtctatgga tgcagatata agctacgagc ataaatgcat 300

gcatatgcgt agccgactat agcgagtttt tcttttttta agtggatcca ctaatttttt 360

ttgaatagaa agtcaatgta tctaaccaat tatttcacag gagtactagc tactgaacgc 420

tat 423

<210> 34077

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A1

<400> 34077

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ttttccccc caattatacc ctctagattc attctcttaa actctaccct cccatattct 180  
ctataaatac acacctttta atgttataac ccctaacttc ccggaccctt tctcac 236

<210> 34078

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A4

<400> 34078

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gactctgaaa acgggagttc atgtgaaaca acctccatca caacttcaga tgattctgca 180  
tctgaatcat cgattgatga caatacaact agataaaaga gcagggtcat gaaaataatt 240  
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tacattcaag accgaggcaa gggaaatggg taagggtttt ggggtgtttt ttgagggtta 360  
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<210> 34079

<211> 187

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-A5

<400> 34079

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cccaattgta ttctctagat gcgtcctcag ctacttactc agcccaagtt ctctgtaaag 180  
agactcc 187

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<213> Zea mays  
  
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aaaagaagtt gaaccatggg gaagagaaaag tcagctgcta agccacctcc taagggaagcg 180  
gatggacaag cttgacactg tcttttccctg tccattctgc aaccacggga gtagtggtga 240  
gtgccgaatt gacatgaaga atctgattgg cgaagcatct tgtagaatct gtcaggaaaa 300  
cttcagcaca actgttaatg cactcactga gcctattgat attgaatgga ttgacgagtg 360  
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ct 422

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<213> Zea mays  
  
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tcgcgttcgg gaagctcttc aggcgggtcg gcgccacgaa ggagatgcgg atcctcatgg 120  
tcggcctcga cgccgccggt aaaaccacca tctctacaa gctcaagctc ggcgagatcg 180  
tcaccaccat cccaccatc ggtttcaatg ttgaaactgt tgactacaag aacattagct 240  
tcaactgtctg ggatgtctgg ggtcatgaca agatcagacc tctttggagg cattacttcc 300  
agaacaccca gggctcttatt tttgttgtgg acagcaatga ccgtgaccgt gttgttgaaa 360  
ccagagatga gctccacagg atgctgaacg aagatgagct acgtgatgct gtgct 415

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 <213> Zea mays  
  
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 tacctcttcc tactaatccg tccatcaaaa tcatcatctg ctactccggtt ctttatgtct 180  
 ctcaaaccag tactgatcac tctcccttgc gctcctgctg acaataagca acctctatcc 240  
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 cttgtacatt ccaacattca cccaacttct actcctctat gggagatcaa tgaatatggc 360  
 aatgaaatca tgcttacatt cttcaacttg tctgactcta ctacaa 406

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 <213> Zea mays  
  
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 <400> 34083  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaatac 180  
 atataaaaac aactaaaata aaaacaaaaa 210

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 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-E4  
  
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attaaccaca ggtccatgga cggagcctgt gactctcaga tcaccatgtg ctggtaccag 240  
ccgtaccacc tgtcaactag gcaacctgcc cgaggcctga tccaaggctt ccagatgtca 300  
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<210> 34085

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E5

<400> 34085

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cgtgagtctc atcatcactg actactgcat gcccggcgatg acaggatagc atctgctcaa 180  
gagagtgcag gggctctcat cgtcaagga cattccgggtg gtgatcatgt cgtctgagaa 240  
cgtgcctgcc cggatcagca ggtgcttgca cgatggcgcg gaggagtctt tgctgcagcc 300  
cgtgaagccg gccgacatga agaagctcac gtcacacctg ctgaagcgga agcagcccaa 360  
gcagaagaac aagcctcagg cgcattgcgtt ggagtctcct gagcagcagc tggacccgca 420  
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<210> 34086

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E6

<400> 34086

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tgctgtcaa ttatgtccct ggtcactatg actccatttg ctatagctat ggaaggccct 120  
caaatgtggg ctgctggttg gcaaaaggct cttgcagaag ttggacccaa tggtgtcttg 180  
tggattgctg cacagagcgt gttctaccac ttatataacc aggtgtccta catgtctctc 240

gatcagattt ctccattgac attcagcatt ggcaatacaa tgaagcgtat atcagtgatt 300  
gtttcatcaa tcattatctt ccacactcct gtccgcgtg tcaatgcact gggagctgcc 360  
attgccatcc ttggcacatt cctgtactct caggcaaagg tgtgaggcgg gccatgatga 420  
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<210> 34087

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E8

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tcaaacattc ttttactatg caacacatca ctatgaactt attaatacta ctctcctctt 180  
catacggaac ttgactgctt cacttatttc tcctttctaa tctgtacatc tacgtcgtac 240  
ataatacctc atattttttt tccacgatga ctatatacta aattaactat ctcttagata 300  
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<210> 34088

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E9

<400> 34088

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aagcattctg gtagttggca ttgcagcatt tggaacgtat taggaatatg ctacagatca 180  
caaggaacat gtctgcatta cttggttctt ggtttcaata tgtttgtctg ggggggtgcat 240  
aatgtatcat aatttgtttt cacggtgtca aaagactage ttagctgtcc gctggatgtg 300  
ctgcaatccg tgcacacct gacactagca atctgtttat tctaccgaat ggctcctgga 360  
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 <213> Zea mays  
  
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<210> 34090  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-F11  
  
 <400> 34090  
  
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 gacacttgcc ttatctttta acagatgtgc cgacacagcc agacttggca cctgacaatg 120  
 tctagcggcc ggatcgggac aatgaggctg gaccgttcaa cgaaaatgag ggtcgttacg 180  
 acgcacgcgc cgctgtctat actagcattg tcggcaggcg tcgcgacact ggagtgcagg 240  
 tcggcatctg cactaagat gactatgttg acgatgaagc taaatccaga ctaggtatac 300  
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<210> 34091  
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<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F12

<400> 34091

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ggcaagggcg gagcaaagcg ccaccgtaag gtgctccgtg acaacatcca gggcatcacc 180

aagccccgga tccgtaggct ggctcggagg ggcggcggtga agcgcatctt ggggcttata 240

tacgaggaga cccgcggcgt cctcaagatc ttcttcgaga acgtcatccg cgacgccgtc 300

acctacaccg agcacgcacg ccgcaagact gttaccgcca tggacgtcgt ctacgcgctc 360

aagcgccagg gccgaaccct ctac 384

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<211> 343

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<400> 34092

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ggggccggat cgaacgtcgg cgtttcttga aatttcaggc tattagaaga gcttgagcgt 120

ggagagaagg gcattggtga tgggacaggg aactatggaa tggatgatgc tgatgacatc 180

tacatgccgg catggactgg taccatcatt gggccctgac aatactgtac atgaggggtc 240

catctaacag ctgaaagttg ttctgtgaca aagactattc cgagaaacca cccatctgtc 300

agattccact caaggaatca acatgacatg cgttaatcac gag 343

<210> 34093

<211> 237

<212> DNA

<213> Zea mays

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<400> 34093

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agcgcccaca atctgagact gattacatcc gtgctcaaga ggctatgagg gtcattgatct 120  
atgttcattgc ccgaatgatg atagtggacg atgaatacat gatgattggg ttcggcaaga 180  
tcaaccatag gttcatggac ggagccacag actctgagat cgccatgggc gcgtacc 237

<210> 34094

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F6

<400> 34094

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atgtgcattg attttattgc tctaaagctc gcctaactta tttgacttga caagaacagt 180  
ggaagagaaa gattctcaac gtctaacagc tgcttttagct tgaatcgggt tgcgctgagt 240  
tgagtgagtg gaaatgagtt gaaatatgga agcgagaaca gtcgcccgcc ttgagaagag 300  
accagaatt gtcataaaa ctctgtttca acattttctg ggttttagagc acattagaaa 360  
tatggagtag gtaatccgct tggtttccct gatttctcta tcttagatcc gcataccata 420  
cccggttcag attggaaagc caaggtagtg gc 452

<210> 34095

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G1

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cagctggtac gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180  
ctgctgagaa gaagcggcct cgatccatct gttactctgt ggatgccaag gctaacgacc 240  
atgccttcaa catctctccc gttgcccttg tgcattgcca catgccgcca acgtctacgc 300  
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360

agggtgctac aacggggcgac ttccatgttg ccgtggagga cgatgtgctc atcatcaaga 420  
gcacgaaacc caagcc 436

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<212> DNA  
<213> Zea mays

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<400> 34096

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ttcatgataa cttgacggat cgcacggcct tcgtgccggc gacgcatcat tcagatttct 180  
gccctatctt ggagtcaatg gagtctggca ggagaccatg aagaagcatg ccaactgggtt 240  
tgtccaaggt gccctgaagc gtgatgagtt ttgtggtttc atcatgtagc cgttcaacgt 300  
aaaaacagta tggaggtata tctaccacca cctgatgatt tgatgaacca cagactgtcg 360  
tggttagctg taaatgacag cgaatgttta tgtttctagt gacaatgtga ata 413

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<212> DNA  
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<223> Clone ID: LIB3068-012-Q1-K1-G11

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ccagccccctt gtgtgtgaca atggcactgg aatgggtcaag gcgggtttcg ctggtgacga 180  
cgcaccgaga gctgtctttc ctagcattgt aggcaggcca cgccacactg gtgtgatggc 240  
gggcatgggc caaaaggatg catatgtggg cgatgaagct cagtccaaaa gaggtattct 300  
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<210> 34098

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 aggatgagct gccccgccat ggcacagctc ctctccaata ccctgtacta caagcgattc 240  
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 agcgctccat cttgttaatg gaattcttgg ggagctacct ggctgagttg agtctactgg 240  
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 <223> Clone ID: LIB3068-012-Q1-K1-C2

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cttcttcagc aacaaccggc caacaatggg atggctacga cagtccctgtc cacctagcta 180

c 181

<210> 34101

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C3

<400> 34101

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cacaagaagg acgaggagca gcccgccggc gagtacgggt actccgagac cgagggtggtc 180

accgccaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac 240

aagcagcacc tcggcgaggc cggcgccatc gccgcccggc ccttcgcact ctacgagaag 300

cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggtcgct 360

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gaccac 426

<210> 34102

<211> 412

<212> DNA

<213> Zea mays

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ttctgggggt tatcagtggt ggtatacaat tggattgcgc accaatgaag atctttatac 180

tggagctctt tttctattat ttctttctac gctatcctta ataggggggtt ggttacatct 240

acaacccata tggaagccaa gcctttcgtg gttcaaaaac gcctaattctc gtctgaatca 300  
 tcatttgtca ggacttttcg gagtaagttc tctggctcgg acaggacatt tatttcatgt 360  
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<210> 34103

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C7

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 gtgcataccc tccggacctt agtctcatca caaaggcaag gcacaatggc cagaactatg 180  
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 gagctgttga gtatgaggat ggtacacctg caactgaagc ccagatgggt aaggatgtcg 360  
 tatcattcct ttcgtgggca gctgagcctg agatggaaga gagaaagctg atgggagtga 420  
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<210> 34104

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C9

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 agcaatggaa gaggatgatg acgaatatca aataccgaaa tcaaggcggc tgagatgagg 180  
 aatcaagaaa gatgcttcaa agaacgtaag cgacgccac atacagcagt accacgcatt 240  
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 <213> Zea mays  
  
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 tggcctcatc cggtttgtct cggttcactc aagccagcag atctacacca gggcaacaaa 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-D3  
  
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 tacgggaggg gtgaatttag ttacaggtct gattacgggg tcagaagtgg tggcagaggt 180  
 ggctcatcac gtggagctga tggtggctac cagaggggtg accatgctgg atatgctgg 240  
 ggtcgtggta gccgcacagc agctgctggc gcaccttcaa aatgaggggc accatagctg 300  
 ttgcgcgtct tttgggagtg ttgttcggtg gctctaagat tattttgaag ttggcataga 360  
 ggctcatcaa ttggttcagt gcgggattac aagagaagcc tggatacaaa ttatgaggg 420  
 tcctgtcctt gatcattatt tttgcaggca gc 452

<210> 34107  
 <211> 452  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D4

<400> 34107

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aagagcctgc acctggaggt ggacgacctg agcgaccggc tgtccgacct tatggccacc 120  
atggaccaca acagccccgg cgcggagatc atccgcagca tcctccgctc ctgatcgccc 180  
acgcgcctcc tactgcggcg gcgcggggcg gcgcgcgaga gagcgaggtc ggcgacgacc 240  
tcgatcgccg acaacgacga ccgcgcgcgc ccgcgcccc ccgcccattct gttctctcca 300  
ccggctggcc gccgggagcc gagctcaatt agctagggtg tatctcaacc tctctctctc 360  
tctctctctc gtcgctcta catgtgtgtg tacctttctc ttcctttcac ctgcctgtct 420  
cctccctaga tctgagatca tgtggctagc tc 452

<210> 34108

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D6

<400> 34108

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gccgaaaacc aaaccagag cgtgtgcaa cggaaccgagc cggaattctc ttctcgggac 120  
ccgtttgacg gtgaactatg cctgagcgat gcgaatccag acgaaactct ggaggaggca 180  
cgaagcgata ctgacgagca aatcgctcga ccgaattgga tataagggcg aaagaccaat 240  
cgaaccatct aggagctagg cccctccgaa gcgcccctca cgatagctgg agcccacacg 300  
agtcctatcg gataaagcca atgattacag gcatcgaggg cccaacgccc tggacctatt 360  
cacaaactcc aaataggtag gacgg 385

<210> 34109

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D8

<400> 34109

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gttctcttctg ccgctgccga cgttctaccg cgtgtaccgc aagaagtcga cggagggggtt 120

ccagtcgacc ccgtacgtgg tgacgctggt cagctgcatg ctgtggatct tctacgcgct 180

gctcaagtcc ggccgagcgc tgctgggtgac catcaacggc gtcgggtgcg tgatcgaggc 240

ggcgtacctg gccgcgtacc tgggtgtacc gcccaaggcc gccagggcgc tcacggccaa 300

gatgctgctg gggctcaacg tcggcgtctt tggactcgcc gcgctcgcca ccatgggtgg 360

ctccagcgcc ggctccgcg tgccgctgct cggatggatc tgcgtcagcg tcgcgctcag 420

cgtattcgcc gcgccgctca gcatcatgcg 450

<210> 34110

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D9

<400> 34110

gacgacttgt ttcatlgatt cttgaagaga tcgagcttct tttgcaccac aaggctcagg 60

atgtcttgca actgcggatc aagctgcggc tcggtctcaa gctgcaagtg cggcaagaag 120

tacctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc 180

ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cggagtcagg cgaggccgcc 240

cacggctgca gctgcgggtg caactgcaag tgcgaccct gcaactgctg atcacatcga 300

tcgacgacca tggatatgat tattatctat ctagcttggtg gtgggtgggtg aacaataata 360

agcgaggccg agctggctgc catacatagg tattgggtgg tgtg 404

<210> 34111

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E1

<400> 34111

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gcaagtataa acaaataaaa atataaatat ctaacaaaca catacatata actactaata 120  
ctctaatatc attaccaata aatccatctt cattccccctt actatataac atcctctctc 180  
ctactatcca ccatactctc caacttaa 208

<210> 34112  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-012-Q1-K1-E11  
<400> 34112

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tgggtgtctgg tcaattccct gtgatttgca ggctcgctgg atgagttttg cagccttagc 120  
caacctttta gggtaggaca attttaggct cgcaaaattc tatccttggt aggaagcatc 180  
ttggataatc tgtcacgtcg gccatgttct tcgtggcctg ttggtgccgt cttggttgctg 240  
caagaaagtt tctctcgagg acagttgctc cgtcttggtg aatttttttt tgggggggct 300  
tgtaagagca tttgttatag aaactcacct caggtgggtg ggttgcatc tccgagttgt 360  
caaagtttat tactggttcg gagtagattg tatat 395

<210> 34113  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-012-Q1-K1-C11  
<400> 34113

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cctctcgggc gcgacccat gatcggtgat aactcgacgg atctgacgcc cttagttcca 120  
gcgacgcatt attcacatat cgccctatc aagtttcaag ggaaagctct gaacctccca 180  
tctcggcgct tggctaccta gaattacact ccgattacca agcggatgcc tgccaaactt 240  
ctaatacatt caatgtaggc acttagttcg catattaacc tatattcact cgtacaggta 300  
gtgacgataa ttaactaaga ggacgtcgct cgagattact cagcctacat agcgtgcac 360  
gcaacttcag tagcatattc atagtgttac ctaaa 395

<210> 34114  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-A12  
  
 <400> 34114  
  
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 gccgctctgg tcatgggcgt cttcgccgct ttggctaaag aaaatgccct ggttgagagc 120  
 aaggccatcg acatcaaccc ggggcagctc aagtgtgca ccaactgcaa cttctccttc 180  
 tcggggctct acacctgcga cgacgtcaaa aaggactgcg acccogtctg caagaagtgc 240  
 gtcgtcgccg tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc 300  
 ctcggcattg gcggcccca gtgctagatc agagaggaag aacgcgcgct gctgctagct 360  
 gctatagctt c 371

<210> 34115  
 <211> 170  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-A3  
  
 <400> 34115  
  
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 acgcgttatg atagatgggtg acgggggtccg gatgtccat tatgtgcttg cagatctagc 120  
 atgtgtgccc ggcattgcaa cttacgttcc tctttttcac tgggtccatat 170

<210> 34116  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-A4  
  
 <400> 34116  
  
 gccggcaaag atgagctgct gatggtaatg atgatgataa gaggccactg ctaccctacg 60  
 acggaccctc ctctttgtgt gctgcatcc gtccccgtta gacgatcgag gagagaataa 120

cgcagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180  
 gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat ggtattgcaa 240  
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<210> 34117

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A7

<400> 34117

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 caacaagcgt gaaccatggc ggacgagtac ggccgcagcg gctacggcag gtccggcgcc 120  
 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180  
 gaaggtggct acaacaagtc gggcgggcgat gacgactaca gccgcagcgg cggcgatggg 240  
 tacggcaggt ccggcgggcg cgactacggc cgtggcaccg gcggcggtgg ctacaacaag 300  
 tccggcgggc gagacgacta cggccgcagc ggcgcgacg actacggccg tggcaccggc 360  
 ggcggcgggg acaacaagtc cggagacgac ggctacgaca gcgggtacaa cagatcgggc 420  
 accaccaacg acgacgaata 440

<210> 34118

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A8

<400> 34118

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 cagccgcaat ggcgagcagc accatggccc tctcctccac ggccttcgcc ggcaaggccg 120  
 tgaacgtgcc gtcgctgtcc gccttcggcg aggcccgcg gacgatgcgc aagacggcgg 180  
 cgaaggccaa gccggcgggc gcgtccggga gcccgaggta cggccccgac cgcgtgctgt 240  
 acctgggccc actgtccggc gagccgccga gctacctgac gggcgagttc cggggcgact 300  
 acggctggga caccgcggtg ctgtcggcgg acccgagac gttcgccaag aaccgggagc 360

tggaggtgat ccactcccgc tgggccatgc tgggcgcgct cggtgcgctc ttcccggagc 420  
 ttctcgcccg caacggcgctc aagttcggcg 450

<210> 34119  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-012-Q1-K1-A9

<400> 34119

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 tggatcatctc acatccctcg agaagacgcc tgctcctcgc cgatcgatac gatggccgctc 120  
 ttctccgacc tccacaccgc cgacggcctc aagtcctcgc aggtcacct cgccggcaaa 180  
 acctatgtgt ctggtgactc cattactaag gatgacatta aggtcttcgc cgcggtgccg 240  
 tcgaagcctg gcgctgagtt tcctaatagcc gcccgctggt acgagaccgt ctctgcggct 300  
 gtagcctcaa gattccctgg taaggctggt ggtgtaaata tgccctgcggg atcagcttct 360  
 gcggcagctg ctctgcgga tgaggctgan gatgatgatg accttgatct ttttggatgat 420  
 gaaac 425

<210> 34120  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-012-Q1-K1-B1

<400> 34120

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 ggcgtacaag gcaacagggg ttctatattg tcattaccag gcggggatgt tcctcctggt 180  
 ggtgagttca tccaggctgc agctcttggt agccaaccag ctctttactc taacgaactg 240  
 ctggagcaac gtgctgcttg tcctgcgatg atgcattcat ctgaagcagg tactaaaggt 300  
 ccaaatggg cccaactatt tgagccttgg gtgaagcatg caacttggtg tggcatanga 360

atacagatcc tgcaacagtt tgctggcatc aacggcggtc tctactaca 409

<210> 34121  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B10

<400> 34121

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gggatcagct cgggtgctacc tcgacggatc ggacgctgcy gcttccagcy acgcgttagt 120  
cacatatcgg gcatatcatg ttgcaagaga aggctctgaa catcacagct cggcgacagg 180  
ctacctgcca cgtacacgcc gactaccatg cgtatgcatg cctcactgcy aatactctca 240  
ttgaaggagc ttagttcgca tattcacatg catgactca tacacgtaat gacgataatt 300  
aactgtacta cgtcggtcga cattgcttcg aactaaatgc gccgcgcgca gcttcagaga 360  
agaggcatcg ggttacgtcg gcgtataaca cattcattaa ggaagagata cccaggatc 419

<210> 34122  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B11

<400> 34122

tacacgatcg acgcatgcct acgcgtgcag gccgtattat ctatcaggca tactcggact 60  
ttgagcgagg atactgacag tcatgatacc tcgacggatc tgacagaact ctggcctgac 120  
acacatcatt cacattgctg cactatcaac ttctgacagc tggattggta cctaacatgg 180  
cgtaacgat cgac 194

<210> 34123  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B12

<400> 34123

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cagggacttg ttcgagggga tccagtccat gacctactgc tgcggtaact tcggtgatga 120  
caaggggtgcc agggccattg tcaaagcctt cccacacata aaatgcactg tgctggcccc 180  
tcccaagatc attgccacca aaccggccga tggagcgaag ataaactatg tcgaaggtga 240  
catgttcagt ttcattccac ctgctcaaac tgtcgtgcta aagcttgtgc tgcaccacct 300  
gaccgatgag gagtgcgtca agctcctggc tcaatgccgg aaggcgattc ctccacggaa 360  
ggacggcggg aaagttataa tcggtgatat tatgattgac cactctgggc ttatgc 416

<210> 34124

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B2

<400> 34124

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aggaagaaca cataaattgg gcagaatgaa agagtctcta gagttacttt acttgcattg 120  
acgatggcct acattgtaca tacgggttct ctattgtaat taccctgcgg ggatatttat 180  
aatgctggta agggaatata ctttgcagat ctggtgtgat aaccatgtct ttactatcac 240  
gtactgctgg atcaacttgc tgctaatact gcgataatgc atccatctgt aaaaagtact 300  
aaaagtccaa gagggaaagg cctatacgat cctcgggtga attatgtctt gcaggttggg 360  
atatgactac aaatgctaca gcttcacttt gtaattaaca acgttctcta ctatactcct 420  
caaactc 427

<210> 34125

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B3

<400> 34125

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tagatataac taaaatgatc aaaaataaaa atactttaca acaaattaaa cttcaattaa 120



aaatcttaca at

132

<210> 34126

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B4

<400> 34126

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atgtacgacg gtaaggacga caacctgttc gagcacttca gcgcggtggc gcagaggctg 180  
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gtcgcggagc tcacagggct gtctggagaa gggagaaggc cgcaggactt tgtctgtacc 300  
ttggcgccga ggatcaggcg gctggatgat agagctcaag cgagggcgaa gcaagcaccg 360  
gttattcctt tcagttgggt ttatgaccgc aaggtgcagc tttaatcaag aacgctaggc 420  
aatgtgggca tttactacgt atatcatttt cagt 454

<210> 34127

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B5

<400> 34127

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ctaaggcttg gtttcaatgg gcccggaatt ggtcaaggga ctggtgcaag acaagctgga 120  
aaaaggattg gcagaccacc cgaagcagaa agtaaaataa gaagtacttt attgcttaga 180  
ctaactttta tagaaactct aacaatttat ggactcgggtg tggcactagc gcttttatat 240  
gcgaaccctt ttgtgtaatc ct 262

<210> 34128

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B9

<400> 34128

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aaaaaaaaaa aagaaagaat taaaacaaaa gaaagaaaaa ccaaaaaaaaaa aaaaaaataa 120  
atattttata caaaaaaaaa atgccccccc ttttaaaatt cccaactttc ctacccttcc 180  
ttttcaactt catacttttt ctatactccc ccctaaatca atttcaactcc cccctttttt 240  
cccccatct aaacttttaa accc 264

<210> 34129

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A11

<400> 34129

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aggtaccata atctaccagg atgagcatca cctgattctg aatcagagct cttactctca 120  
tgcaacactc atggtctgtt ccaactgatgg catttaacga cagattgtgg gactcctctc 180  
ggttctgggc ctcttggtcc agatcataca acacctcatc cgacaacatc tgccccatat 240  
cttccacagt taaactatgt aactgaggac ctgttctctt ggaacatttg gcctgatgtc 300  
caggttcata cttctctcca caccctaaac ataaccatt catcctccta aaatccctca 360  
actgcctctt cttc 374

<210> 34130

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C1

<400> 34130

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cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgagacg caagaggcag 180

cgatccgtat gtcgtcctac gacttggcaa gaagaaactt aagacgagcg tgaagaagag 240  
atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300  
tctgaagctg gaggtgttcg acaaggacac gttcagcagg gacgacccga tgggggacgc 360  
ggagatcgac gtggcgccgc tgggtggaggg ggcgaacgcg agcccggagg cgagcctgag 420  
gaacggcgcc atcatcctgt cggtgc 446

<210> 34131

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C10

<400> 34131

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ggcaccgtta gaccgtcctg acgatactca gctatctagc tatggcccag actggttgagc 120  
tcaacgatgc tacgatctgt aacgtcttta tgcgagctat caaacctgtc catgacgaga 180  
tgagacgctt catcttctac atacgtatac atcatgaacc agatggctac cgtgaatgtc 240  
attgatactc cttacgtcct actggttgact tgattcaaga ctgggttaaaa tacttccttc 300  
tctaagggtg acgtcgatac aagtgaat 328

<210> 34132

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F4

<400> 34132

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gagcgagaac ctgcgcacga cgaangccng cggcgaggtc gagactgagc ctaccggggc 120  
acttgccgtg ctcaagggct tcaaggacct gcctcccggg atgccgtccg tgctcctcgt 180  
gactgccatc acctggctct cgtgggtccc gttcatctc tacgacaccg actggatggg 240  
ccgggagatc taccacggcg accccaaggg gagcaacgcc cagatctcgg cgttcaacga 300  
acgtgtccga gtccgcgcgt tcgggctgct actcaactcg gttattctag gggtcagctc 360

gttcttgatc gagcccatgt gccggaag

388

<210> 34133

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F5

<400> 34133

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atcctctacc acacctactt tattttctct ttagatctac cactactacc ccaattttac 180

caacgcccat atctcgtctt tcaactaaac tattccaatc cccactttca tacttctact 240

caactccctt attctatcat tcaactctct tccttattaa acccattttc ctcaaatt 297

<210> 34134

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F6

<400> 34134

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ttttttttgt ggtgctcttg atttgaggat ctcggtataa ctgtaaccac acgcactggt 180

tacggttgct tctgcttcac aatcgctggc gacggttgga ttctttggat gttatagatc 240

<210> 34135

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F7

<400> 34135

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aancnnanttt ccttcggctc gtttatttta aacagacgct actctacact acanntatat 120  
 nttanaattht cttttttata tctattttttt ttcacctact ctttatttga cgatctnctt 180  
 ataactgtaa ccacactcac tcattactttt ttcttctgct tcacaatcac tctcaacctt 240  
 tccattctttt tcatcttata gatcatacaa aatatctact atttctttta tatatacttt 300  
 atccatacta tcaacattat aataaatttt ttccatt 337

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 actttgaaaa gagagtcaaa gagtgcttga aattgccggg agggaagcgg atgggggctg 180  
 gcgacgcgca ccggccgtat gcggaacggc tcctgctggt ccgccgatcg gctcggggcg 240  
 tggaccgttg tcgcccgcgc cggcggccaa agcccggggg ccctaggcgc ccccggcagc 300  
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<223> unsure at all n locations  
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 gctcgcaaact taccatcc ttactctggt atgtacttac aataaataac aataccgctc 180  
 gcattagtgt ctggttaattg gaatgaatac aatctaaatc ccttaaccag gatccattat 240

attgcaattc ttgttccagc aaccgccgta attccaactc caataacgta tattttaagtt 300  
 tttgcaat 308

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 <211> 380  
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 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-011-Q1-K1-G12  
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 aacactactg gcgcgcacgc acgcaggagg accagcacca caccacatgc atgggtggagc 120  
 ctagcacggg cagctagctc ccggccggcg acgtgacgac caccaccacc acatgttgca 180  
 tgagcagcag gcaccgccac cggcagtagc agcgcaccgc ccatccatca accccgacga 240  
 cgacggcgcc cgcgatgtcg aggtcaccac gttccgcgac atccaccctc tgacgcccga 300  
 cgcgccgcgc cccgccttcg cgtnctggga caccgccagc caccgctcct tgtcgtcgctc 360  
 cgacgaccag cagtacatga 380

<210> 34139  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 acttgccgtg ctcaagggct tcaaggacct gcctcccggg atgccgtccg tgctcctcgt 180  
 gactgccatc acctggctct cgtgggtccc gttcatcctc tacgacaccg actggatggg 240  
 ccgggagatc taccacggcg accccaaggg gagcaacgcc cagatctcgg cgttcaacga 300  
 aggtgtccga gtcgggcgct tcgggctgct actcaactcg gttattctag gggtcagctc 360  
 gttcctgatc g 371

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 <211> 237  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-G6  
  
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 aggaaagggtt aaaaaaaaaag gaggtataaa aaaaaaaaaa aaaaaaaaaa aaaaaatgaa 120  
 aaggaaaaaa tatatatatt gtgagagata aaaaaaataa atatgtaaat ttatataaaa 180  
 tgaaatgtgt gataaaaaata atatTTTTat taaataaatt tttttggttg atatTTT 237

<210> 34141  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-G9  
  
 <400> 34141  
  
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 gaatttaagg ggctaggaaa ttgaactaag agtttggtac tgtgaactaa gagtttggtg 120  
 ctgtttcgtg ggagtgtgac ttcactccaa tatttgatat ctatctgtga cacttgctat 180

<210> 34142  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgtcacagga tcaatcactt ccatccattg aacctattta atatctcccc aagaggctgt 180  
 ccccaactcc aaagcctatg aatcagcaca atcttgccaa caa 223

<210> 34143  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-H11  
  
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 atgcatgatg tgaacaacat cgaggaagag atgcgcagga agcaagctca cgctgcccag 180  
 gaggcgtacg aggaggacga cgagatgccg ggccggagccc agagagtgca gtgcgcgcaa 240  
 cagtaagcag actatcatca aggcaattgg gaggggtggt gcccttaaag cgtgggagtg 300  
 atctctggtt ttgctgtcgc cgagctggga aataagaagc tgaatcgacc tcttaagcgg 360  
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<210> 34144  
 <211> 341  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-H12  
  
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 ggtgggtggg actggcgacg gacttctcgc aggggagccg agcggcgctg cagtgggagg 120  
 cgaccaacct gctccgcgcc ggtgaccacc tgctgtgtgt gcacgtcatc aaggagcccg 180  
 actacgagca gagcgaggcc atcctctggg aatccaccgg ctccccgttg attcctctct 240  
 cggaattctc tgaccctatc atcgcaaga aatatggagc aaaacccgac atggaaacct 300  
 tggacctcct gaacactaca gctaccaga aggaaattat g 341

<210> 34145  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-011-Q1-K1-H3



<400> 34145

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agtcagtacc agcagcaaag ttgaatgttt ggtaatttgg tgggagaagc ctggagagta 120

cgtgttgat gagcaacaac agcagaaacg acttttgctt caacaacacc aacaagatct 180

ctatacatca actgcattca ccgccacagg atcaatcact tccatccatg gaacctattc 240

aatagcttcc ctaggcagaa agacaaacac aaatgaatat gaaacaacag attctggcaa 300

acaattgtag cttggctgga ggcgggcac agcggcgact tcccactcga ttcgctgtat 360

aataaatact atgagaggat actg 384

<210> 34146

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H4

<400> 34146

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ggggggggcac gcacgcacca ggaccagcac cacaccacat gcatgggtgga acctatcacg 120

ggcagctggc tcccgaccaa catacattac aaccacctat tgcttcaaca acaccaacga 180

gatccccctta cctcaactgc atttacgcca ccgccatcca tcaacctcct ccacgacaac 240

tactcgcaat gtctaggtaa ccacgttcgc cgacatccac cctttgacac ccg 293

<210> 34147

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H5

<400> 34147

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gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 120

togtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccca 180

ccgtcgtggc gaccgaggaa gcgcgggtgg tggagacccc ggctccgccc gccgtcgtgc 240

ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcgagga 300  
ccgagccagc tgccgcccgt gagcccgagg cggcccccggt ggcg 344

<210> 34148  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F10

<400> 34148

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ctgcgccgctg tcttctctggc cggcgacagc gccggcggca acatcgtcca caacgtcgcc 180  
atgatggccg ccgcgtcggg gccgcgggtc gagggcgccg tcctcctgca cgcgggggttc 240  
gggggcaagg agcccgtcca cggcgaggcg ccggcgctctg tggcgctgat ggagaggctc 300  
tggggcgctg tgtgccccgg ggcgacggac ggcgtggacg acccgcggtt gaatccct 358

<210> 34149  
<211> 198  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-011-Q1-K1-H6

<400> 34149

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tccggaaaga gagagagaan acaagcaatg gcgacagcag ggaaggatgat caagtgcaga 120  
gccgccgtgg cgtgggaagc cggcaaaccg ctgtccatcg aggaagtgga agtagcgccg 180  
ccgcaggcca tggaggtt 198

<210> 34150  
<211> 396  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-011-Q1-K1-H9

<400> 34150

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aagccttgct ctggcttcct tacgggttat tacttcctta gtagctcaac atatgtactc 120

tttacctgct tatgcattca tagcacaaga ctttactact caagctgctt tatataactca 180

tcaccaatac attgcagggt tcatcatgac aggggctttt gctcatggag ctatTTTTTT 240

cattagggat tacaatccgg aacagaatga agataatgta ttggcaagaa tgtttagacca 300

taaggaagct atcatatctc atttaagttg ggctagcctc ttcctaggat tccatacctt 360

gggcctttat gttcataacg acgttatgct tgcttt 396

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<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A1

<400> 34151

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ttagtggaag aaaaggacaa tcaaatgcag aagatagaga aagaaattaa ggaactaaag 120

gtatggcgtg atttcgtagg ccgagttcct catggacatc gtcagcaacg aagagatggc 180

gctcatcgac accgctagga gaagaaactt atcagtgatg ggtctttata accaaacaat 240

tttatgagct taaaatgact ttcttagcct cttttatact tagcacatgc 290

<210> 34152

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B6

<400> 34152

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gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga tgcggtggtg 120

cagccgcaga cttccccgcc cttcgaccgc ctcggcggcg gcgcgtcccc ggcgtccggt 180

ggcctccccg gcacctcgtc gggcggcagc agcattccag cgttcagcat gccgggcagc 240

ggcagcagcc tccccggcgg gtcgtttcttg cccggcagca gcggcagcat cggcagcatg 300  
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<210> 34153  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B7

<400> 34153

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 acataactac ctttcaggta ctacaacctt ccatactgtc aaccagaga tggcgtaaa 120  
 aagagttctg aaaacttatg cttgcttctt attgttgatc aaataaataa ttcttcctac 180  
 cggt 184

<210> 34154  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-011-Q1-K1-B8

<400> 34154

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 cggcaaggtc ccgcattctg ggccggcngcn gccacgcgc gcgggtctcc gccctccgac 120  
 accgcgccgg catgggcctc cccgtcgccc gccacatcgt ccccgacaag cccctccccg 180  
 tgaacgacga gttggtatgg gataacggca cgccttctcc ggaaccctgc atcgaccgcc 240  
 ttgccccgca catcggaag tacgaggcgt tggcgtggct gtgcggaggg ctagggttct 300  
 tcgctgccct cggtatggct gctggtgtga acgacaaggc ctccaatata ccatatactc 360  
 ccaaa 365

<210> 34155  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B9

<400> 34155

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gcgcagcagg cgtcgaacgt gcgggcgacg taccacctgt acaaccggc gcagaacggg 180  
tgggacctga accgcgtgag cgcgtactgc gccacgtggg acgccgacaa gccgctgtcg 240  
tggcggcaga agcacggctg gacggccttc tgcgggcccc cgggcagaa gggccaggcc 300  
gcctgcggca agtgcataag ggtgaagaac cgtgcgacgg gcgcgtccat cgtggcgagg 360  
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<210> 34156

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-C10

<400> 34156

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ccacatcttc ta 132

<210> 34157

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 34157

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agccttctga tcgtcaccca tggccactgc cgaggtccag accccgaccg tcgtggcgac 180  
cgaggaagcg ccggtggtgg agaccccgcc tccgcccggc gtcgtgcccg aggaggctgc 240  
ccccgccgcc gaggccaagg tggaggagcc agctgccccg gcggagaccg agccagctgc 300

cgccgctgag cccgaggcgg cccccgtggc ggcggaggaa gagacgcaa aggaggaaga 360  
gacggcaaag gaggcggagc cggagccgg 389

<210> 34158  
<211> 207  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-011-Q1-K1-C12

<400> 34158

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taccttcate ctacctataa tctccattat atatacccca tctccaccca ccacctctcc 180  
tattatcttc ccccatctcc tactcca 207

<210> 34159  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34159

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agcanatact tagcggcaag ggcgccgagt cgttctctgg cgagaagtac tgcaccgaca 180  
tcgggtcaag cagcagcagc atgggttcgc tggagcggat ggcgcacact gccgtgcacg 240  
tctgggtcgg caag 254

<210> 34160  
<211> 309  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cgcttttgtg cctctgccct tctgtttttg ggccccaagg acctatattt tgcttgaaat 120

gatactacca tagcttttcc tgcccgaagt gctatgtggt gtttctgtgc gtttggtgac 180

aatgatagga cgggatgaga tgagaccctc aaattagggt gtttggttct ggtcaaaga 240

ttgagacaag aatattctag tattgtttta aaaaaaaaaa aacaaannca aactaaaaaa 300

aaactcaac 309

<210> 34161

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-C6

<400> 34161

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tgtganagaa gaacttgacg gcatggccaa aaactatccc gatcgtttca agatctacta 120

tgtcttgaat cagcctcctg aagtctggga cgggtggcgtc gggttcgtgt cgaaggaacg 180

atccagactc attgcccagc gctgcccgc gacattcagg tattgcgatg tggacctcct 240

ccatgaacaa agccatggcc gcgcacctgg acggccttgg ctacacgaag gagatgcagt 300

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ttctaagctc caaacagacg ctcttttgta cc 392

<210> 34162

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-C8

<400> 34162

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gtccgcgccg cggccagaga aggtgagtt ctgcatcgac gacatcgacc tggacgagaa 120

gagcaacaag gtgaaggtga cggggccctt cgaccgggac aagctcgccg acaagctgtg 180

ctgcaaggcg tgcaagatca tcaagcagat cgagatcgtg gagccgccgc cggagaagcc 240  
 caagaaggag gaacccgccc cgccgccgtc gaagaagaag gaggagccgc ccccgccgcc 300  
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 accgaaggag gagccaaagc 380

<210> 34163  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-D10  
 <400> 34163

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 caatcatatc cccccatttt atcatcctgc tcccttgcta aacctaccct tttccccact 240  
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 ttattccccc ttccc 315

<210> 34164  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-D12  
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 ctgcgtggc ctgcctcgac caccagcgat cgctgctcac cgtcggcaac agccacctca 120  
 agcaacgaat cgccggcgtc gcccaagaca agatcttcaa ggatgctcat caagaggcgc 180  
 tgaagaagga gatcgagcgg ctacgccatg tgtaccagca gcagcagatg aaggtggcca 240  
 ccaccggcgg cgccgacatc gccgcggcgg cttccatgca ggccaagcaa gagctgctcg 300  
 cgtgcgaggg cgctgccatt cgatagcgga tcgagggcgg aggcgttcaa ctggcagtgc 360  
 cacaacaaca acaccagcac cgaactt 387



<210> 34165  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-D5  
  
 <400> 34165  
  
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 acccaaaaaa aaaatctgcc ctcccctcat aaaaaaacia atttaatttc cccttctttc 180  
 caaaattaaa ctttttaaaa cccccccca aaacaaaata aactccccgc tttaaaaaac 240  
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 ttcacaattt cataaaaaaa aaaaaacccc ccca 334

<210> 34166  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-D7  
  
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 accgcagcgc ccaccgcggg ggctcagaag atcgtctccc tcttcagcaa gaagcctgcc 180  
 cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240  
 aagtggtaag gtcttgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300  
 gtaccggagt acctcaccgg agaggctcct ggagactatg gctacgacct ttttggcctg 360  
 ggcaaga 367

<210> 34167  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-D8

<400> 34167

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gggcctgctg gaggtgctgc anaaggaggc cggcgggcggc aaggcggcgc tggcgcccga 120  
ggaggtggtg gcgcggatgc ccgcggcgcc cggcgacccc gccgccgcgg cggccatggt 180  
ggaccgcatg ctccgcctgc tcgcctccta cgacgtcgtc cggtgccaga tggaggaccg 240  
ggacggccgg tacgagcgcc gctactccgc cgcgcccgtc tgcaagtggc tcacccccaa 300  
cgaggacggc gtgtccatgg ccgccctcgc gtcctgaac caggacaagg tcctcatgga 360  
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<210> 34168

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E10

<400> 34168

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attccttct tctgcgacg agcgttgccg aaccaacttc tgtaaatact ggctactgtg 180  
agactggcta tgcttgttct tattacagac gtgctattcc gcgtctgaat tctgaaactg 240  
ccatggaacc ctctataat cgtcgtgta atcgtgtgga gggatgtaac tacgaggtag 300  
taaaaaagcg gttacaggac aggaaatagt ggaaaggtag ataagcatag atagtatata 360  
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<210> 34169

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B5

<400> 34169

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tctggcgagt ccacgaactt cttcctgggc ctctcgtcc tgccagagcc gccgccacca 120  
tcttctcccc agcgaggaac ctcttgtctt caaccgtctt gccaggctct tcacgtccca 180  
ggctggaagt gatgggtggcg ataccagaa gccctttatt gcttttgtct taggtgggtcc 240  
tgggagtggc aaaggaacac agtgactaa gattgcttcg gattttggat ttgcccattct 300  
gagcgtggt gatattctcc gacatgaaat agcatctggc agcgagaaag gggagttgat 360  
cctagaaatc ataaaagaag ggaggattgt tccgtctg 398

<210> 34170

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E12

<400> 34170

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gagcgagacg gagcgaggct ttgccgtgc agagcagagc gacatgagct accggcttgg 120  
aggcgcggcg gaccgcgagg agggggacga ggagctgttc gagacggcgc cgtccgtctc 180  
cggcggcgag ggctcgtgcg accaggagcg ccgcgcgttc gtgccgccgc tgcggaggat 240  
gaactcggac agcatctacg acatggcgtc catggtgtcg cagcagctcc cagccaagaa 300  
agggtatcgc cgggtactacg agggcaagtc gcagtcgttc gcgtgcatgt c 351

<210> 34171

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F1

<400> 34171

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aaaaaaaaaa aaaaggaagg aaaaaaaaaan gggccgcccc ttttaaagaa ccaaac 116

<210> 34172

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H3

<400> 34172

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taatggcgca tgatgatccg gttgtttctg ctcatgggt gcacgagcac ctaggaatgc 120  
ctgatgttaa ggttttggat gcttcctggg acatgccggg agagaacagg gatccatgga 180  
aagaatatca ggtggcacac ataccgggtg cgctattctt cgacttagat ggcatagtgtg 240  
atcggacaac tgatttacca cacatgctgc catcagaaga ggcttttgca gcagcaatgtt 300  
ctgagctgga tataaaaaaac caggataaag ttattgtcta tgatggaaag ggattcttca 360  
gtgcgcctcg tgtttggggg atgttttagag cgtttgggca caagacagtc tgggttac 417

<210> 34173

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-H4

<400> 34173

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gcggcgcttg acgcgacga ggaggaggag gaggaccagg agtgggaggc tgcgctgcag 180  
aagtggaaga ccaagaccta cgcgtctcg gtgcccctcc gggtcgtcg gctccgcggc 240  
tccttccctc catcttggat taaggatttc gtccaagctc aggggaagag actcaaattc 300  
agtcctgaac tccgtgctaa tcttgatggg atcctctctg agatgtcaca atgtatggac 360  
aagggtcaag atcagccgaa gtctgcaatg gcagctcatg ttgnttccct tgcngactac 420  
tggtcgggt atgcat 437

<210> 34174

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H5

<400> 34174

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atgaaaaata ttaaaaaata gaaataataa aaaaaataaaa aaaaaaacta aaaataaaat 120

aataataata ttttacataa tataacttata catacaagta aaacaacaat gatccatgta 180

tttattatta cgttcataca cttcatctat gtactcttct atatattaca tgtaataatt 240

catccgacaa ttaatttact acaca 265

<210> 34175

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H6

<400> 34175

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aatcaaccc cgacagtga gtttgagagg cagctttgca aaacgaggga tgagaggtac 120

cttcttgacc tgcaaagggt cagtggatca catcttctct ttctggactt gtgttccgcc 180

tttctaactc agctgagagt tctttgagcc tgacatgatt ggcttcccaa gcaactccttg 240

atgcacccag tggagtttca agttacattt gagatgtaca taatgaccat atataatcct 300

ccagtagatt atattttctg gagcatgtaa tgtagacgtt agaggcttgt cctgggttgc 360

caagatggtt gttacctaag gtcctaacaa gagggccgag gcgagcccag tccaattaga 420

tgatgtgaaa aatttttggc ctttttttag tcttttgaca tgttatcaaa t 471

<210> 34176

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H7

<400> 34176

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gctgacgggc ccgatcccg gcgacgacgc gcgacgag atcaacaccc tggacctctc 120

ccacaacaag ctgacgggag acccctccca cctgttcgcc gccggccggc ccatcggcaa 180

ggtggacctg tcgtggaact acctcgactt cgacctgagc cagctggtgt tcccgccgga 240  
 gatgacgtac ctggacctgt cccacaacct catccggggc accgtgccgc tgtcgctgga 300  
 gcggtgttcc acgctgcaga agctggacct gagctacaac cgcctgtgcg ggccgctccc 360  
 caagggacac ggcgtcatca agcacgggtg caagccgtac gcgcacaacc agtgccgcaa 420  
 agggaccccc ctgcggg 437

<210> 34177  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-010-Q1-K1-H9  
 <400> 34177

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 gcgccggcgc gtctccgacg gggtagctgc ctctggcacc acctggtctc ccgccgcaa 120  
 tgactccgaa gacagcttcg acggctgggtg gtttcccgag tacgagaagc atatgaaaca 180  
 ggggaggagg aggatagggg ttcagagcgc tgtcggtggt gagttgggag cgtctgctgc 240  
 gatcgcgatt gctgggctgg cgtggcgctt cccatcctcc aggaagcata tacaacaact 300  
 cattgttgca ccattacact atgttcaaga taaattgtca acaatggagt cgacagagat 360  
 aatcaaggca gatgcaagtg agagggaatc tgatgaaatc caagtttcta gcgcaacaca 420  
 tgataagata gctgaagcaa taactgacga ttca 454

<210> 34178  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-A11  
 <400> 34178

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 agacatggga acacaatatg ctagattcta ttctaaaaac cttattgaac acattaaact 180  
 acacatcaca cgtttcaaca tacctaagat tattcctact cttaatcaac ctcatcacta 240

acaagaactc tcctaactac tcatacacct tgacatacat gacaatgcat ccgacaatat 300  
 tatcaaccat attataaatg catctgaaca tacacaggat catgatcagt gcaatgaagt 360  
 ttccaatg 368

<210> 34179

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-A2

<400> 34179

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 gaaaaagcgg gtaaaagaag acgctcaaca acttgctcga gtttttgaaa ccattggcgc 120  
 tttcaaactc cctcgcaaag gtggaaaagg aaaacagatc tttgggagtg tcacggcaca 180  
 ggatgttggt gacataataa agtcacaact taatagggat gtcgacaaga agctggtgac 240  
 ggttccagaa atccgtgaaa tcggagagta tgttgagag atcaagct 288

<210> 34180

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-A3

<400> 34180

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 gcttgcaagt tgctcttgcg gtagttcccc caactgtcac catgcagaac gaggagggta 120  
 agactgtgga cctctatggt cccaggaagt gctcggccac aaacaggatc atcactgcca 180  
 aggaccatgc ctctgtccag atcaacattg gccacttgga tgcgaatggc ctgtatgatg 240  
 gtcacttcac aacatttgct ctctctgggt ttgtccgtgc tcagggcgat gcagacagct 300  
 ccttggacag gctgtggcag aagaagaagg ctgatatcaa gcagtagatt ttacatctag 360  
 tttaaccaaga attggacact gccttagcta tgttttgaat tcatgtc 407

<210> 34181

<211> 292

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-A4  
  
 <400> 34181  
  
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 aaaactttac tactcaaact gctttatata ctcatcacca atacattgca gggttcatca 120  
 ttacaattcc tattgctcat ggaactatTT ttttcattat cgattacaat cccgaacata 180  
 atgaaaataa tctaattgca acaatgttaa accataacga aactatcata tctcatttaa 240  
 gtttggtctaa cctcttttcta atattccata cctttttacct ttatattcat aa 292

<210> 34182  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-011-Q1-K1-A6  
  
 <400> 34182  
  
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 cgctacaaga acccatgggt agagttgaaa attcagtagc gccaaaataa agggaagttc 120  
 tataacgagg aatgtgaccg ctttatgctt tgcattggtgc acaaacttgg atatggaaac 180  
 tgggatgaac tgaaagctgc cttccgtatg tctcccttgt ttcgatttga ttggtttgtg 240  
 aagtcagaa ctaccaaga gttggctagg cgggtgtgata cccttatccg actggttgag 300  
 aaagaaaatc aagaatatga tgagcaagag aggcaagcaa ggaaggagaa aaggcttgct 360  
 aagaacatga ctccaacaaa gcgagc 386

<210> 34183  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-011-Q1-K1-A7  
  
 <400> 34183  
  
 acggacaaaa gtggggacaa aactggcaac aaatctggca cacaatttgc cgtggcgggc 60



gccgtgctgg tcgtggcact gctgctgaca acctcggaga ccaccatcaa ctgcggcctc 120  
 acctgctccc acataaactc ctgcctctcg tactgcctct gctacaagcg cggcacctgc 180  
 tcctgctgct gtaggtgctg ctggaacctc aagagcaacc tcaagagcgc cgccagcagg 240  
 ggcgccgact ggaactgcct ctagaactgc ctcaagaacg tcagcagggt caacagcggc 300  
 cacaacgcca gcaacgcctc caagatccgc gtcaagatcc gctacaacat ccgctactcc 360  
 atcgactg 368

<210> 34184  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-B1

<400> 34184  
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 ccgccccatg ctcggtctcg ctcccatccc atgtggaggg aagagaaggg tggggggagc 120  
 tggctcgctg agttggtcgc tgcttcgttt gcttgtgctt tggcgccata tcgctgcgga 180  
 gcgctgtacg tagccatttt tcgccgggga gggatcctca tcctcctcgt tggcttgcta 240  
 cgtgttcctt gccgccatta cgaaacctta attgctcgct ttacacg 287

<210> 34185  
 <211> 109  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-B10

<400> 34185  
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 cgtaaaaaat aaaaaaaggc cggacacaaa cttcccaccc ctttaaaat 109

<210> 34186  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-010-Q1-K1-H12

<400> 34186

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ggatccctct ccatggcgtg gatcagcccc agcttcccat ggatgtcgcc ctccctctccc 120  
tgatggctgg cgtctccact ccctgcagca aggacgcttt cctctgctcc ctgctcttcc 180  
tcccatggcc ccccatgtag cagtaaccat ggaaaccctt ctgggacgcg ccctcagcat 240  
gctcaatgat atgctgcagc gagctccacc ttgatctatg ccaaccggc cgcanatcat 300  
cgaaccttgg ggaacccttg ggaccgatgg tgaagaggtg aagcccatcc aacgtttgtt 360  
aaatgttcga tagaaggttc gaaccanaag tcacggcgga tcttgtgat 409

<210> 34187

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B11

<400> 34187

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120  
ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180  
cgttgaacca aacgtacttt tccaacatit catatatatc ttaataatta catit 235

<210> 34188

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B12

<400> 34188

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cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 180  
cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240  
gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360  
gggcgcta 368

<210> 34189  
<211> 305  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-011-Q1-K1-B2

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ccatgacgtt aacttctcgt aaaatntntg nggcognaaa atatgaagaa aacctagaga 180  
ttacaggcac atacttggag gctcagaagc tggatgatga aatctgtgac attgtggcga 240  
caagagcagc ccggctggct gctgcggggc ttgcaaggat cctcatgaag atcgggagag 300  
atcac 305

<210> 34190  
<211> 464  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gtgccggtgg tggatcaaagt tctctgggtt atctctttgg aagcgggtgag cccccaaac 180  
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ctggcggtgg ctcttcctg ggctacctgt tccgtggcaa ctgatccccg tgctggtgag 420  
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<210> 34191  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-F12  
  
 <400> 34191  
  
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 acaaaaggat catgactata atgctcaaaa aaaaagaaga accaaaaatc tttcacaaat 180  
 ggctctgccc tacttagcaa acacttttat cgcattgtcc tcgtgcatta tcaggcaaac 240  
 atcatgagga aactgcctta ccaccttctc atgtacaatc taaaatttca gaactgccta 300  
 aactcaatat gaccattac acctcctcta cagatacatc ctcttttcat actgagctat 360  
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<210> 34192  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-F2  
  
 <400> 34192  
  
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 aatataaatc aattacttta tttcaattta caata 215

<210> 34193  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-F3  
  
 <400> 34193  
  
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ggaatatgtg agcacgtcca tgtcaatacc aaacatctgg ccttttctct ctctcttttt 120  
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 cgtatgtgat tggatcacgg tgacctaaaca ggccattccc acacttgtgt ttttacatga 240  
 cttttgagtg ggtgatgcac ggataatatt gacatgttgc gtgcacgctc aggtgggtgct 300  
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<210> 34194

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F6

<400> 34194

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 acgtgcccta cgagatgggt cagcaccctt acgcgccggg cgcctacgac aagaaggccc 180  
 ccgcccggta cgtccgcaac gtcgtctccg accccaccgt cgcgccgctc gccagggcct 240  
 actccaccga ggtccgctac accgccgcct tcagcgacga gaacccaac gcctgctccg 300  
 tcatgtagac gtagaccac ccacacaccg accgacccat gctattagtt actagtagta 360  
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<210> 34195

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F7

<400> 34195

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 tgaacgacac tgcattcccc atgtctgaca aca 153

<210> 34196  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-G10  
  
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 cagccctttg cgggaactgt tttaagagca caaagtgtat ctcaggaagc ttcacctagc 180  
 gtctttactt caaagcctct catagattct tcacttgtga aaaatacata tgttggttta 240  
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 tgccttaaaa gaaaatctga atctctatct gggttcagaag caaggggtca ttcagctgca 360  
 ttggtgcaac ctgctctagg aaatcataat gggagtgagg gtgcacacaa gggccttcgg 420  
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<210> 34197  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-G11  
  
 <400> 34197  
  
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 gagacggggg cctcagtgat gacagagaaa gatagcactc aagcttctgc tgcacatcaaga 120  
 catccctttg cggcaactgt tttaagagca caaagtgtat ctcacgaagc tacacctagc 180  
 gtctttactt cagagtctct catagattct tcacttgtga caaatacata tgttgcgcta 240  
 agttcaagac agagcccata ttggacatcc aaattttggt aaccatcaac caagtgacga 300  
 atgccttaga cgaaaatctg aatctgtatc tgggtcataa gcactgcgtc attcagatgc 360  
 attggtgcaa cctgctctac gaaatcataa tgggagtgga agtgacacac atggccttcg 420  
 gatggctaac gttgtacagc tattcaaga 449

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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-G12  
  
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 gacaagcccg cagtcgtggg gaaagccact gccgttcccg gcgacgagaa gccacggcga 120  
 cgactgccgc ctggggccatg gacccttccg gtcatcggca gcatccacca cgtgggtgcgc 180  
 ggcttaggac accgcaccat gatggagctg tcccgtcggc acggccccct catgttcctc 240  
 cgccttgggc aggtcccgac gctggtggtg tccagcgcgc aggcagcgga gctgggtgatg 300  
 aagacccacg acctcgcctt ctgctcccg ccgaccacca gcgtcaccat cgacatcgtc 360  
 ggctgcaagg gcaaggggct cggcttcgcc ccctacggcg accggtggcg tcagatgaag 420  
 aagatcaccc tcgtggagct tctcagcgcc acgcaggtca agcgca 466

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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gacccacata cactcccgcc cgtacgcccc acaaaccac accaaaacc actcccactc 120  
 ctccgacgta cccccgacc cccaagcctc cgacaccta gccgaccccg ccgacgtaca 180  
 ctccaagccc caaacctccg acgccaagc cgaccccacc gacgtacacc ccttccccca 240  
 agcctccgac acctaagccg accccgccta cgtacactcc aagccctaag ccaccggcta 300  
 ccaagcctcc cagcccaag ccgaccccg caacgtacac cccttcgcca aagcctncga 360  
 caccgaagcc gaccccgccg acgtacaccc cttctnccaa gcctncgacg cccaagccga 420  
 ccccgtcgac gtacac 436

<210> 34200  
 <211> 338  
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<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G6

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gctgacgctg gtcctcatcg tggccttcgt ctcgctggtg gactacctgg cgctgcgccc 120

ctcgaagccg tgcttctacc tgcaggacct gcagctgcgc aggcccatct cgctgggcga 180

cccgtcgctg acggcgctcg cgcaggtgac gctggcctcc cgcaaccca acgaccgcgt 240

gagcatcttc tacaagcgcc tggacgtgtt cgtcacctac cgcgacgagg ccgtgacggt 300

gcccgtgtct ctgtcgccgc agtaccagtg ccatcgct 338

<210> 34201

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G7

<400> 34201

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gtttaacata agtctcagtc ctgacctaac tcatcatctc acaa 104

<210> 34202

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G9

<400> 34202

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gtctgggaac agaaattttg aaggacgtgt gcctccttta accagagcaa attaccttgc 120

ttccccctct ttagttgtgg cttatgcatt ggctggcaca gttaatatg attttgagaa 180

agaacctatt ggcctctcga aagatggaaa agagggtttac ttccgggatg tttggccatc 240

cacagaagag atagccgagg ttgtcaagtc aagtgtgtc cctgacatgt tcaagagcac 300

atatgagtca atcacciaag gaaatcctat gtggaatgag ctgccagtct caacaagcac 360



tctctacccc tgggatccat catctacata catccatgag ccaccttact tcaaggatat 420  
gaaaatgagt cctcctggcc cgcggcctgt gaaagatgca ta 462

<210> 34203  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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atcatccgcc acacgctggc cggaatcaac tgtgttggct tccttgccgt ctacagcagc 120  
agcgtctccc cccaggacga tcagccggca tcctttgttg cggtaaatat cccgcaatta 180  
ctctgtttca ggttccagta tccttcgcac ccccgactct aggtttgatg caaactcatc 240  
tatctgcaca agtggaagca acttggacct tgcaaagtga ccatcccat ggtctggcac 300  
ttggcacggt gcgtctgctc actctttgtg caggggctac ttgtcccccac cgatcggcat 360  
caggaatacc tcagcacatg tctcgcgttc tgccaatgga tctcccagtc gttacgtang 420  
ctcatcacgc atgtccc 437

<210> 34204  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H1

<400> 34204

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tcacccggcc catgttccag agcatgctga gccaccgcgg cgacagcggg tgccagggcg 180  
ccttctacac ctacgacgcc ttcattgagg ccgccagcaa gttccccggc ttcggcacca 240  
ccggcgacga gcagacgcgc aggcgggagc tcgccgcctt cttcggccag acgtcccacg 300  
aaaccaccgg tggatgggcg actgctccgg atggaccgtt tgcttgggga tactgccggg 360  
tgaaggaaca gaaacagacg gaccaccctt actatggacg aggaccata cagctaactc 420

ataagtacaa cta

433

<210> 34205

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H10

<400> 34205

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gggtgtctgtg ttcaactgag acgtttttat ccggagttga acatcacaat aaagcaaagt 120  
cactgatacc atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240  
aaattaaata tttaaataaa aaaaaaaaaa aaaaaaaagg gggggccctt ttaaaagaac 300  
caagttttcc tccccgggga ttccaattta aacattttta ttaggggccc ccaaatt 357

<210> 34206

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H11

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ctgaagatga agactaaaaa aagtggagct aacatcgatc tggactcaca aatgaaagga 120  
aaatgagttg atcggaagac atgcaccaga caaaccataa ttgctgcctg aaaatgcgtt 180  
agtagaaacc gataagctaa agcctggcga aggaactaga gataacaaat actgctactt 240  
gatactagat acattggctt caaaatatga ctcaag 276

<210> 34207

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C9

<400> 34207

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acctagcgcc agctcttcca ccctgagcag cttatcagtg gcaaggagga tgcagccaac 120  
aacttcgccc gtggctacta caccattggc aaggagattg ttgacctgtg ccttgatcgc 180  
atcaggaagc ttgccgacaa ctgcactggc ctccagggct tcctcgtctt caacgctggt 240  
ggaggaggaa caggctctgg ccttggttcc ctctcctgg agcgtctgtc tgttgactac 300  
ggcaagaagt ctaagcttgg tttcactgtg taccatccc cccaagtttc gacctcagtg 360  
gttgagccat acaacagtgt cctgtccacc cactcccttc tcgagcacac tgatgtggct 420  
atcctgctgg acaacgaagc catctatgac atc 453

<210> 34208  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-010-Q1-K1-D10  
<400> 34208

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gtatcagggg cagctagctc ccggccggcg acgtgacgac caccaccacc acatgttgca 120  
tgagcagcag gcaccgccac cggcagtagc agcgccaccg ccatccatca accccgacga 180  
cgacggcgcc cgcgatgtcg aggtcaccac gttccgagc atccaccctc tgacgcccga 240  
cgcgccgacg cccgcctccg cgtcctggga caccgccagc caccgctcct tgcgtcgtc 300  
cgacgaccag cagtacatga cgatgagccg cgagttcacg gccatggctg ccgacggggc 360  
gaccatgcag accggcggct acgacggcgc cgtcgaccag ctcaccagca tcggcgagga 420  
cgagctggag gagac 435

<210> 34209  
<211> 416  
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<213> Zea mays  
<223> Clone ID: LIB3068-010-Q1-K1-D11  
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cgatggcaac acccaggtcg tgaaggcaat cgagaacgcg atccccgtgc ggcggcgcgg 120  
 gtgcggcgagg agctgtggtg cgggctgacg tacctggtga tccagacggc cgggttcacg 180  
 cggctcacct tctgggagct gtcgtgggac gtgatggagc ccatctgttt ctacgtcacg 240  
 tccatgtact tcatggccgg ctacgccttc ttgctccgca ccaagaagga gccgtcgttc 300  
 gaaggcttct tcgagagccg gttcgcggcc aagcagaagc gcgtgatgcg cggccggcgc 360  
 ttcgacctcc gcaggtacga ggagctccgg agagcctgcg gcgtggcggc ggcgcc 416

<210> 34210  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D12

<400> 34210

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 ggaagggggc aacctagctg tggatcgacg atataacgcc caccctccgc catgttgcac 120  
 gagcagcatg cggcgtcacc cgcactgaca tccctaccga tacacaccaa ccccttcac 180  
 cacctcacct tctatgacct ggccaccaac ttgatcgacc ccatctctt 229

<210> 34211  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D2

<400> 34211

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 acgtaccgtc ctcttttgtg gctgccatcc gtccccgtta gacgatcgag gagagaataa 120  
 cgcagagctc tctgtctccg gcctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180  
 gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat ggtattgcaa 240  
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<210> 34212  
 <211> 308

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D3

<400> 34212

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 tgccggctct gcttctgccg tcctggacag ttaatttact catgtgtaat ctctatatgt 180  
 caatcatcag catgactatt gagctgatat gtcatgggat tacaactata tagtcattaa 240  
 aaccataatc aatgacccca actatgcaga gtaaattcac tttgacattc atagcactgt 300  
 gcataaat 308

<210> 34213  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D5

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 gctactaaca ttttgatcgt cctaagcaat attacttgta ttgttctacc ttttcacaaa 180  
 ccaatcatatc tatgttctac ctcatgattt cttcacctta atgtactatc aagtcatatc 240  
 ct 242

<210> 34214  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D6

<400> 34214

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 gaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaatTT 120  
 tataagttcc aagtttactt actctttctt gcaacgtcat atttttttta tagtgttacc 180

taaatttatt ttattgcccc atttttttaa acgtcctgat ttgaaaaacc ttggagtttc 240  
 caaacttaat ggcttttatag tacatattcg tttggtaaca tggcatatta tctaaaa 297

<210> 34215  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D7

<400> 34215

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 atgaggcgag atttttcttc caacaactga tttcaggagt tagttattgc cactcaatgc 180  
 aaatatgcca tagagatttg aaactagaaa acactctcct ggatgatagt atagcacctc 240  
 ggctaaagat atgtgatttt ggttactcca agtcctctgt gttgcactct caacccaaat 300  
 caactgtcgg gacaccagct tacattgctc ctgaggctcct tgctagaaag gaatatgatg 360  
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 atccctttga ggaccc 436

<210> 34216  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D8

<400> 34216

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 acacttacgg atcatcacgc aaaacacatt attccaacaa cagaaatcac aagttacaca 180  
 caaccactca atacacatat accatagaca ctacaaacta gaaaacactc t 231

<210> 34217  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E1

<400> 34217

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tgtactatct cgaagcattg tgcgtcgctg aagagaatca ccaccaccac cacctgttcc 120  
accacaagaa ggactaggag cacgccgccg cgggcgggta cggcgagtcc gccgagtaca 180  
ccgaggccac cgtgacggat gtcgtctcca cgggcgagaa cgagtacgac gagtacaaga 240  
atgaggagaa gcagcacaag cacaagcagc acctctgca gcccgggccc atcgacgccg 300  
ggccttcgc actcgtacgt agtccgtacg atccgaccc ccttgagtag tatatatata 360  
cataaatgaa cgacgagaac gaattatata tatata 396

<210> 34218

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E12

<400> 34218

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catggtgagg gatctcatca aggagagcct gcccatcttc actcctgagc agtctatact 120  
ggtgaagggc tcgacagact acatcgctat caacgagtag acatccagct acatgaaggg 180  
gcagaagctg gtccaactag cggccagtag ctactctgcc gattggcagg ttcaatatgt 240  
gtttgcacgc aatgtcaaac cgattgcacc acaggcaa at tctaagtggc tctacatcgc 300  
cccgaagggg atgtacgggt gcgtgaacta cctcaaggag aagtatgca atccaacgat 360  
ctacataacg gataacggaa tggaccatcc tggaaacttg acccgagacc agtacctgcg 420  
cgacgccacc aaggtgcggc tctacagg 448

<210> 34219

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E4

<400> 34219

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cacctcggta acctatcgca tccagccttc tatcaactat gctctcctgc acttaactga 120  
ccgcatcggtg ccttcgctgc cgttacttcg aacaaattac agtgctcaaa gcaatccatc 180  
gctctacata cattaccatg ccataacacc ataggattcc gactctattg tggcggcctt 240  
ctcaatcatc ttcacgatta ttagcaacag tcaccttca 279

<210> 34220  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E5

<400> 34220

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ttctagctcg tttcattatc catggctgag gagaagcacc accaccacca cctgttccac 120  
cacaagaagg acgaggagca ggccgcggcc ggcggttacg gcgagtcgc cgagtacacg 180  
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240  
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgccggc 300  
gccttcgcac tcgtacgtag tccgtccgat ccgacctcc ttgagtagta tatatatata 360  
taaatagaacg acgagaacga ataatatata tatattaatc gaacgaactg aatgacgggtc 420  
acctcgtgtg acgt 434

<210> 34221  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E6

<400> 34221

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 180  
aaaaaaaaaa gccaaatata caaaaaaac aaaatttttc tataattaaa tacaactagt 240



acaatattca tgagaagcaa caaaataaaaa

270

<210> 34222

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-E7

<400> 34222

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agaagctaga tcagttggcc tgctccgaag caaaagggtg gcaaatttgc ttggctgttg 180

ctgcgaaggt gatgaaaggt tgcttgttgc agaatacatg cccaatgata cgctcgcgaa 240

acatcttttc cactgggagt cacaatcaat gaaatggacc atgagattaa gggttgttct 300

ctgtcttgcg gaggccttag aatattgcac caacaggggc cgtgctctct accatgatct 360

caatgcctat agagctctgt ttgatgatga ttgtaaccct agactntcct gttttggcct 420

catgaagaac agtcg 435

<210> 34223

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C8

<400> 34223

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tccttttccct ggtcactatc attatcaggc cagttagcga taaaatgacc aatcttaccg 180

cacttgaagc atgagcgctt ccccttcgtc ttggtcttgc ttggtgccc cttgtgaccc 240

tttagcaccg tcttgaagcg tttgatgatg agagccatct cttcttcatt aagtccgacc 300

gcctcaattt gtgccacctt gctaggtagc gcctccttgc ttcttgttgc tttgagagca 360

aaagggtgtg gttcgttgat cgggccattc aaggcgctcg ccacgtacct tgccctccttg 420

atcatcattc gcccg

436

<210> 34224

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B2

<400> 34224

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tcattttacga tatcttgagg acgatgaagg actgcaacat ccagatattt tacggccggt 180

tcagatcaga caagaaaggg tcagccagca aaggttcacg aggttgccgt gaggtggatc 240

ttttcgtgaa gcaagtagac gggaagaagg tgactgatcc tgcgaaacag gacgcgctgc 300

ggtcacgcct gaggtccgag acgctccatc cgctcagggt catggtcgtc ggccgtggac 360

ccgacacgga gtcctcgtc gccaaacccg tcgaggcctn cgggaaggga cggccgcgcg 420

tgttctacga cgccac 436

<210> 34225

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B4

<400> 34225

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ggcggtggac gcgctagcca actatgtcca ggtctacgtc atgctcccgc tggatgtcat 120

cactgtcgac aacacgttcg agaaggagga cgagacgagg gcgcagctga agaagctgac 180

ggaggcgggc gccgacgggg tcatgatcga cgtctggtgg gggctggtgg aagggaagga 240

gccgggagtc tacgactgga gcgcctacag gcaggtgttc aagctggtgc aggaggccgg 300

gctgaagctg caggccatca tgctcgtgcc ccagtgcggc ggcaacgtcg gcgacgtcgt 360

caacatcccg atcccgagc ggggtgcggga cgtcggcaaa agcaaccccg acatcttcta 420

caccaacccg agtgggctga c 441

<210> 34226  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-B5  
  
 <400> 34226  
  
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 tccaccttca acccacacgc gaaaaatatt cgacacgctc tactttctgta catacctatc 120  
 atgctattac tctatccaca catcacccctg ctgtaccact ttcaccaact cctaacgtac 180  
 ctaataccac atataacgat aacatcaatg atatcatata cgaaaactcg tgtttacatg 240  
 atgctcacct tacattctaa gattataaag agctacttta tacctctcac a 291

<210> 34227  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 34227  
  
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 ggtgtcgggc gccacgccca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 120  
 gtcggggcac aagcaggggg acatgctgct ggtggtgccg cagggcgcg c acgcggtgcg 180  
 gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 240  
 catcacgttc agcgcggcgc ggacgtgcgc gcaggcggag cggctgaacg tgtcggtgag 300  
 ccccgagtgg ggcgtgctcc cgatgcagac catctacggc agcaacggct gggactcgta 360  
 cgctggggcc tttcaagcga agatggacgc ggtgacgctg ctcatncaca acccgggcgt 420  
 tga 423

<210> 34228  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B7

<400> 34228

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ggtttcatac actcacgcca tccattaatt agatacattc atctatctac aattcatata 120  
atcacctcac tctcactact acttgctctt catgggttcct tacatcacac actctcagcc 180  
cctttttccaa gactcgtctt tctcgcagcg acttgccgta ccgcatctcg actactactg 240  
cat 243

<210> 34229

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B8

<400> 34229

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ttctccgatt ggccgcgcgc cgctcgcgc tctcgtcaa caaaagccca ccggaagcga 120  
gcgagcgagc caccctcccc gcgcgcgcca ccgccccgt cccgccccca ccccgactcc 180  
tcctgaccgc cggcgtgggg tgcccgggct ccacctcgg cgacgacacc ctcccgcgcg 240  
cgcgcgccct caccgcctgc tccgtttgcg gnggtagccg gggctccggc ctccggcggct 300  
ttcaaagccc cctccctcac aacaggatcc anaatcccgt cctagacttc ttctacctcc 360  
ccttcagaa cttctcttt tggcatcccg gacggctgat ctgaccccc ttcgacttcg 420  
attcatctct tcttatcgat tg 442

<210> 34230

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B9

<400> 34230

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gcgatgcat ggccgtcttc tccgacctcc acaccgccga cggcctcaag tccctcgagg 120  
ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat gacattaagg 180  
tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc cgctggtacg 240  
agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggg gtaaactctgc 300  
ctgcgggatc agctcctcgc gcagctgctc ctgcggatga ggctgaggat gatgatgacc 360  
ttgatctttt tggatgatga actgaggagg acaagaaggc agctgatgag cgtgccgncg 420  
ctgccaaggc ctcttctaaa aagaaagaaa gt 452

<210> 34231  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-010-Q1-K1-C1  
<400> 34231

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cgcaatggca ctctgtgaac actgctccat cttcaccacc gacgtggcgg cgctcccag 120  
gaatgggcat cagcagacgt cgctcgctgtt gttctcttac tctactctt cctccttctt 180  
cgtcggcaag acgctgctga ggcacgccga ggcagcccgg acgtcggtcg ccgtgcgcgc 240  
ctctgaggat tccgacaggc cgatctgggt cccctgcaac acccctacga cgaggctcga 300  
ctgcagcctc tctcacaact tccgctttga tccctgtggc ctccgatctg acccgagag 360  
cctgcggtgg aacgtgcatg cggatctggg gcaactgccg tgggcgatgc tctgcgcagc 420  
gggtatcttc 430

<210> 34232  
<211> 468  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-010-Q1-K1-C11  
<400> 34232

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gaaaaacaat cctgacaagg tggccgctct aatactggaa aatacattta catccatact 120

ggatatggct ggtattatgc ttcccttctt aagatgggtc ataggtggga gctcttctag 180  
 aggtccaaaa cttctgaact gtgttcttcg ctctccatgg aatacacttg atatcattgg 240  
 agaggtcaaa caaccattc tcttcctttc tggattacaa gacgaactag ttcctcctcc 300  
 acacatgaag atgctatatg acaaagcttc tgatcataat agcaattgca gatttggtga 360  
 ttttcctagt ggtatgcata tgaatacctg gatgtctgga ggggaccgct actggaggac 420  
 aatccaactg ttcttggatc aatatgctcc tggagtacaa aatcgtga 468

<210> 34233

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C12

<400> 34233

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 attatccact gacttttcat accaatcgct attcaccaat tattataatc aacatgttcc 120  
 tcattccact actcttaatt acttttctcat cacactcatt atttttttct aactaaccta 180  
 tctcactaca ttctaaacc agttcacatt ccctatttgt cttataacaa tccaacacta 240  
 tttcaattct ttttcacact cataata 267

<210> 34234

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C3

<400> 34234

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 cgtcgattga gaagatgacg ttgcaaata ttcagacttg tcaagataag aagagacgaa 120  
 ggaagaacaa tcaaatgaga aaccttttca gtcagtatag aatgacatct tttttctttc 180  
 agttcagacc accaaggatc caccttcctc caatggtgtg gtgcaaaaac aacaacatgg 240  
 tctacacagc agtgccctcta acgcaaggaa ggacaaaggc agacgccaca gagtatcatt 300  
 gaggaaatca tgtctctgtt attaaatggg ttgcctgcac atctgctttg agctgatcac 360

cacgccttgt ggacacaggt aatttataac tgtgtctttc caaaaaagga tggttgcatg 420  
aattctatgc 430

<210> 34235  
<211> 336  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-010-Q1-K1-C4  
  
<400> 34235

ctcgcgcgag gaatatgaac aacttacatg tgagaaggca catttgagg gagaactagg 60  
ggagtgcggc agaataatcg aagaaacaat ggctcgggta agtgatctgg agaaaaaact 120  
ggaagacctg acatctaaga tggctgacag cgagaaatca actagctaga atgagacaca 180  
tgtgaagtgt atggctgaat catacaagtg acttgaatca cggaaaatcg aattagaaaa 240  
tgagatagaa gcgctacagt ccagaataga tgctctaaca gctgaactct gtgatgaaag 300  
acagagtcac caggaggact tagttaaata cagaga 336

<210> 34236  
<211> 435  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-010-Q1-K1-C5  
  
<400> 34236

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ctcgtectcc accaccgccg tcgcggcgct cccaggaat gggcagcagc gggcgctcgtc 120  
gtcgttggtc tctctctcct cctcttcctc ctctctcgtc ggcaagacgc tgctgaggca 180  
ggccgaggca gcccgccgt cgttcgccgt gcgcgccg gcggattccg acaggccgat 240  
ctggttcccc ggcagcacc ctcgccgtg gctcgacggc agccttccc gcgacttcgg 300  
ctttgatccc tggggcctcg gatctgaccc ggagagcctg cgggtggaacg tgcaggcgga 360  
gctggtgcac tgccggtggg cgatgctcgg cgcggcgggt atcttcatcc cggagtctct 420  
gaccaagatc ggcgt 435

<210> 34237

<211> 184  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-C6  
  
 <400> 34237  
  
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 ctcgggggcca tctgctcatc ttacaccacc ggcggcgcct cactcaacag taatgggcac 120  
 caacaagctg acaactccat aggtctcctc ctctactct tactccttac tcttctgcaa 180  
 taca 184

<210> 34238  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-C7  
  
 <400> 34238  
  
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 ctggtgggtgg tggcctgtag cctggccgtg gagatccagg ccgacgccgg gtacggttac 120  
 ggcggcgggt acaccccgac gccgacgccg gccagcccga cccgaagcc cgagaagccc 180  
 cacaccaagg ggccgaagcc ggacaagccg cccacggagc acacgccgtc caaggagcac 240  
 gggcccaatc cgcagaagcc gtcccaggag cacacgccga cgccgaccac gtaca 295

<210> 34239  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-B12  
  
 <400> 34239  
  
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 ggccggcgcc ggagcgtcca agacctacc gcagcaggct ggcaccgtcc gtaagaacgg 120  
 cttcatcgtc atcaagaacc gcccctgcaa ggttgtggag gtttctacct caaagactgg 180  
 taagcatggc catgccaaat gccactttgt tgccatagac atattcaacg ggaaaaagct 240



cgaagatatt gttccttcgt cacacaactg tgatattccg catgtgaacc gtactgagta 300  
ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 360  
taaggatgat cttagactcc caactgatga gactcttgtg gccagatca aggaaggggtt 420  
cgaaagcggc aaggatcttg ttgtgactgt ccagtctgct atggggg 467

<210> 34240  
<211> 194  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-009-Q1-K1-F9  
<400> 34240

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acgggtgggttc ctgtgggtctc gagggagcgt cngtagtgac atctactacc agcactggta 120  
ttccgcttct gccagagaag cactgcgctt tgtttgatga agcttgtgga gccatggcgg 180  
gcagtaatag tcct 194

<210> 34241  
<211> 295  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-009-Q1-K1-G10  
<400> 34241

catgaagatt atccatctgt tgttcgggca ctttaaggat ggggacctca ttcaacacat 60  
aggctacgac actatctctc aaccaagata tttaagataa catgcatcac acctgtcgcc 120  
aatcatattg aaccacgtcg agaacaagca aatgcactct gtcaagtact cctaccatct 180  
catgctacag atcttctctg tatggatata cttcattacc ttctgccatc aatacacaat 240  
ctgctaaaag atctgcatgc tctagaccct gccacacag aggctctaca aatca 295

<210> 34242  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-G11

<400> 34242

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aggtnnggtt ttattaaaaa ataatagaaga ttatatataa aattaaccta ntaaaatcta 120  
gtctctaacc cagataacca aaaaaaaagg cccccccctt ttaaagaacc acaactttac 180  
ttccccctcc ttccaanata aaaatTTTTT ttttaaggccc cctaaattca attccctccc 240  
ccccTTTTta caccctctta acttaaaaaa cccttgcttt cccaactta ttccctttga 300  
aaaaaatccc ctttttccca atttgcttaa taacaaaaaa cccccacca atcccccttc 360  
ccaacatttt cccccctaa atttcaaatt gaaccccccc ttaaccccc cattaacccc 420  
ggcggTTTTT ttttttccc c 441

<210> 34243

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-G12

<400> 34243

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ggggacaaca ataataactc caattgccgc cgcccccttg tggccaaaaa caaaaa 116

<210> 34244

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-G3

<400> 34244

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acctgcaaat gagctgtaca cgaaatcatt atacttttca tcaatagcac ctaaactaga 120  
ctctaagatc acatgcataa cacttgtaa gcatgataac aaacatctc atgctaaaat 180  
acatctcact tgtgaagaac taacaagata tgcacgctac atatcttcca gctatgggta 240  
tacgtgattc tcttctgcc aataacaca atctgttgaa agatct 286

<210> 34245  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-009-Q1-K1-G6

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 gggcactgaa catgccgtgg tctctattcc actaaacccg cctgacgatg cacatgaccg 120  
 cggctaaggc aaaccagcc gcgagcttcg gcagaccgtg atacaggcct gaccgcgttc 180  
 tctacctggg ccctctgtgc ggcgaccca caagctaact gactggcgag tctcccggtc 240  
 gacta 245

<210> 34246  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-009-Q1-K1-G9

<400> 34246

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 ctgcacacca actcattana cttntcatca aatacaccta aactgcactc ttatatccac 120  
 tatcaaattg cttctcaagc tgcaacacaa tcctctcag cctcaaattc aactcaatca 180  
 attaacaata agaacaatga cacctacttc tggttactatt tttgtaaatc tctaattcctt 240  
 ttcgctttca tttctgcatt tttttaatta tcaaaatcaa acattccttc cccacctgca 300  
 ccatccacat ttaaacttat ctattcacia aaattcttct caaaatattc taacataccc 360  
 ccattt 366

<210> 34247  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H1

<400> 34247

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tgccgaccgt ccgtccaccc cctctcctct tcccggcgcc ggcgacagcg ggagggactc 120  
cctgggagga atggccgtgg tgagggctcc gctcggcgcg gtggcggtgg ccgctctcgt 180  
cgtcgccatc ttcattgccg ccgccgcagc ggcgaggca ccggcgccc cgcccaccag 240  
cgacggcaca tcaatcgacc tggggatcgc gtacatcctt atgctggtgg ccctggtgct 300  
cacctacctg atccaccgc tggacgcgtc ctcccctac aagctctttt aatctctgct 360  
ccttttcngt tggatcatgc ggtatgggtg ctat 394

<210> 34248

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-H11

<400> 34248

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tggggggggg ccttaacctg gccgtggaga tccaggccga cgccgggtac gggtacgggtg 120  
gcgggtacac cccgacgccg acgccggtca ccccgacccc gaagcccag aagcccccca 180  
ccaagggggc gaagccggac aagctcgcca aggagcaca gccgtccaag gagcacgggc 240  
ccaagccgga gaagcctgcc aaggagcaca agtcgacgcc ggccacgttc acgccgagct 300  
ccaaaccac gc 312

<210> 34249

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H4

<400> 34249

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acgggtgggg ccacgcctgg cctgacncgg gaagccggcc ggaaccatcc aactccgccg 120

cgctcgctgc gccttcgtct cgcgtgctca ccaagagaac aaaacgcgag cagccaagaa 180  
 ttcaacgtcc acgggtccgcc caccctccgt ttccgcttcc tccctccacg tcgtctcggt 240  
 cttcctctcc tgtaatcccc tgacacgggt ggctgcgacg gcgaatcaga tccctacccg 300  
 tggcgttggt cgtgaattgg cgccgtcttc ccct 334

<210> 34250  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-009-Q1-K1-H5

<400> 34250

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 ttctatcaaa aacagaacac ataataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 120  
 cataaaaaaa ataaatattt tttattcttt ttaaaaaaat aaaattataa tttcatctta 180  
 aaaaaaattt tatatttttt ttataatata aaatatattt taattttttt tcctaaaatt 240  
 ttaaattttt tttattttca aaaaaattca attaaccaac tttatttttt taaaaataat 300  
 aatctctaaa aaccatgttg taaacaaaat aaaaaatttt ttaaaa 346

<210> 34251  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A1

<400> 34251

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 ctctacttgc gttttggaca ccgtaggggt agggctacat tatttccaag agatcgatca 180  
 tagacagagc acgacatgtt ggggcggcgg ccgacagtcc ggcactaagg acgacgacat 240  
 cgacgacgac ggaagccttg ggcatgttca tgtccagcat gatgcagcat gccccagatt 300  
 cagaagaagg ggttgatcag atgttgacct tggcgacttc cgggagatgc accgggtagc 360

ggtcgatgc

369

<210> 34252  
<211> 456  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-010-Q1-K1-A11  
  
<400> 34252

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gcctgtgcgt ctccatcgtc gccgcctctc ctcccttcgga cagactgac cttccactgg 120  
cgccaacgaa gaaaacacat aggaagaagc tcaccgcaa acctcatcca gatccagtcg 180  
ctgcccctcg aaggccgcat acggaacgtc tcgtctcttc ctttgatcc ggcggtcaac 240  
tccatcacc ccagcttcac ctcccttagt cccctccgt ccgctctcac ccaccgcttc 300  
tatatcgcca cctctctcgt tgtagaagaa gacactgagg atctggcttt ctggaatcac 360  
atctcttgag aactatctgt tggagaacta aactaggctc ttggtcatat tatggatcag 420  
caagctaaga ttgatgctga tttcttgga ccaact 456

<210> 34253  
<211> 429  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-010-Q1-K1-A6  
  
<400> 34253

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gtcgcgcaac atcagagcac aagcgaggaa ccagtcacg tcccgggaat ggagtgcgta 120  
ttgggcgtgg ttggccgga cttcgcgctg gtggcgccg acacttccgc cgtgcagagt 180  
attctcgtec acaagaccga cgaggacaag gtgatggtgc tcgactcgca aaagctgatg 240  
ggcgcttcag gggagcctgg tgatcgggtg caatttacgg agtttataca gaagaacctc 300  
cacctgtacc agttccgga caccatcccg ctctcaaccg ccgccgncgc caacttcaca 360  
cgcggcgaac tcgccacagc ctttcgcaag aatccatata tggatcaatat tattctgggt 420  
ggctatgat 429

<210> 34254  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-010-Q1-K1-A7  
  
 <400> 34254  
  
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 gaaaaaatta aaaaaagagg agaggctttt taacctaatt ctatttttaa tactcgaatt 120  
 tgatattaat atatttttta tatagacttc tctattttta ttactgtccc ttttttttta 180  
 caatgttttc tcttacaaaa ttttggttat cccaatttaa ttcttcttga aacatatccc 240  
 tttttaaaca tttaatatta ta 262

<210> 34255  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-009-Q1-K1-F4  
  
 <400> 34255  
  
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 gccccgggttc caccggcctcc ggggctacgc cgcgcccagg tccgcggtgg cggcgtgcc 180  
 gtccgtgagg gtgggcagga agaggtcgtc gtcgcagggc atccgctgcg actacatcgg 240  
 ctccgccacc aacctgatca tggtgacgac gacgacgctg atgctgttcg cggggcggtt 300  
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 <213> Zea mays  
  
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ctggctcggg ggtggtagtg gggcgcgggtg ccccatgtgt gccgctgcag cttgtgtctc 180  
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gtgtaaattc gcttgcctga tcagctcctg cggcatctgc tcttgcggat gaggctgacg 360  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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atgaaatata tgatttctat cacatagctt cagaattata ccgcgaatgt ggaacgccac 180  
aacctgcata tgatgctcta gcaaaggggtg ccaatgcatt ggaggagaaa tctccagaag 240



aagctatcaa aatgtatgat gaggcttggt cacttctata agaagatagg aaggaacaca 300  
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<210> 34259  
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<223> unsure at all n locations  
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 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C6

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 tatatccatt ttctttcata aataaaaacc gctttttacc ttcaaaaaaa aaaaaaaaaat 180  
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 tcaaataaat attatcc 257

<210> 34261  
 <211> 334  
 <212> DNA  
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<223> Clone ID: LIB3068-009-Q1-K1-C7

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 gtatgtggtg agcaggaatg gtgatccctt gttttggggg atgttgctgt gcaggtgtaa 180  
 ttatcgtaa ctcagttgtc tatctatagg cccagttcag cttgagtttt atgggttaact 240  
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<210> 34262  
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 <212> DNA  
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<223> Clone ID: LIB3068-009-Q1-K1-C9

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 atgggcctcc aagagaatct tctgagagggc atttatgctt atggttttga gaagccatct 240  
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<223> unsure at all n locations  
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 ctgacgggtt tcagttcgat gctaagcact atgattctaa gatgcaagag ctgctgagca 180  
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 tgggcctcca agagaatctt ctgagacgca tttatgctta tggttttgag aagccatctg 300

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<210> 34264

<211> 261

<212> DNA

<213> Zea mays

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agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 180

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<210> 34265

<211> 90

<212> DNA

<213> Zea mays

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cgctgattca ttaaactgct ctctcagaag 90

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<212> DNA

<213> Zea mays

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gtggcccgag cgcaaattac cgggcctcag cccacagcac cggatgctta tgatgaaaga 180

cgggaggcgg ttgtcacccg agataatcga ctctactga ctgcactgga agaagcatat 240

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<210> 34267  
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<223> unsure at all n locations  
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<210> 34269  
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tgtcctcgac cttgattctt acaaattggc tgcattctct gctgcatatg cacaacttga 240  
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<210> 34270

<211> 377

<212> DNA

<213> Zea mays

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<400> 34270

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cctcggcgcc gccttcgccg cggggggcgg ctccctgagg cagtgggtggc agtggggcgt 180  
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gtccggcgtc cgcgcctcgt tcgcgtccgc gaactcgctc cccaccacgc acaagcagca 360  
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<210> 34271

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-E3

<400> 34271

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ccccggattc ctaagtactg tagaacgggt ctcgaaatcg ctgggtttcc acctcctgtc 180  
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gaagctcact ggcaacagcg ggaactcaag caagcagagt tcttgacgga cgttgtcatt 300  
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cgcccaggtc cgcggtggcg gcgctgccgt ccgtgagggg gggcaggaag aggtcgtcgt 240  
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 <212> DNA  
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tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 360  
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<210> 34287  
<211> 304  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34287

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ccaacaagac aacgtggcac cggatgcagt gtctggcgat caatgattat ttcaggttgt 180  
gctctctgat ttaggggtgg gtgacagctg ccatgacaac taattatgat gttatacaca 240  
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ttca 304

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 <211> 384  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gcgccacctc catcaaggcc tacgtggccg agttcatcgc caccctcctc ttcattcttcg 180  
 ccggcgctcg ttccgccatc gcctacaggc aactgacgaa tggcggcgcg ctggaccocgg 240  
 cgggcctggg ggcgatcgcg atcaccacacg cgctggcgct gttcgtgggc gtgtccatcg 300  
 cggcgaacat ctggggcgga cacctgaacc cggccgtgac cttcgggctg gccgtgggcg 360  
 ggcacatcac catcctgacc ggcg 384

<210> 34289  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 34289  
  
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 aaatacccca actaaaaact caaaatcaaa agaaaaaaga gaaactggta aaactacatt 180  
 tgtgaagagg catctcactg gagagtttga gaagaaatat gaaccaacca ttggtgtgga 240  
 aattcatccg ttggatttca ccactaactg aggtaagatc aagttctact gctgggatac 300  
 cgcattggcaa gagaagtttg gtggcctcaa ggatggatac tata 344

<210> 34290  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-009-Q1-K1-B2

<400> 34290

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ttctgggcaa ttcaccgcat ctgatggcc agtatgctgt atttgggagg gtcactaaag 180

gtgacgatac attgagtaag ctgagaggc ttccaaccg gagagaaggc atttttgtaa 240

tgccgatcga gcgtatcaac atcctatcaa cttactatta tgatattgat ctgagagact 300

gtgaagcaga aaaatctatt ctccggagga gactttctga atcagcatca gaagttgagc 360

gtgggagaag aaaatgcttt gcttaatggt gg 392

<210> 34291

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-B4

<400> 34291

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cgatcattct ttagctgcgc taactctagc ctctagccct agctagtagc tagccactcg 120

gtcgtgtagt catcagcctt ctgatcgta cccatggcca ctgccgaggc ccagaccccg 180

accgtcttgg cgaccgagga agcgccggtg gtggagacct 220

<210> 34292

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-H3

<400> 34292

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cgggaccgag gaagtacttc ccagattatc gccacgtcta agtgttgagc tcgtacaaaa 180

gaaaatttat ttgctgttg atcagtaggg agaccgttct gggggaaacg gtaattttat 240

tttattaatt aatagctcca gctgtaagat tgccagttgt tatattttca tgattttgac 300  
 acatgaattt caatttgctt gacttatgtt tgcaaggaat tacttttaggt ttgttcattg 360  
 ctctgatgaa atataaatta tatggagtga catcc 395

<210> 34293  
 <211> 164  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-009-Q1-K1-B5  
 <400> 34293

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 caaactatct aaactcctct ttacagactg agaaactgct aaaa 164

<210> 34294  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-009-Q1-K1-B6  
 <400> 34294

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 cccagcttca agctcgatcat cgctggcgat ggtggaactg gtaaaactac atttgtgaag 180  
 aggcatttca ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtcat 240  
 ccgttgatt tcaccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg 300  
 caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcatcatc 360  
 atgtttgatg t 371

<210> 34295  
 <211> 191  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-009-Q1-K1-B8

<400> 34295  
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 ggtccgcaag attatgattc aagtgcagac taagtagcag caccgatgtt tcctttttgt 120  
 ttctttcgtt tttggtaaag ttgtagtggt tggtgaagaa aaggattgca ataaaattag 180  
 tgtttataca c 191

<210> 34296  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-009-Q1-K1-C10

<400> 34296  
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 caagttattg ctgaaatgaa acctatttaa aaactgatgg tgaaggttct gacaaattct 120  
 tagcaactga cagtgtcttt tcttgtgaag atgatgcaac ttgcatggat cgtgtgaatg 180  
 tgattgtatc actggatgta ccccgtagca ctaagaatga tacattntcc aagaacacat 240  
 cttc 244

<210> 34297  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-E11

<400> 34297  
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 aacggttaac atataacaca ggaacttcaa cataaactat atcctccact ctcctcaact 120  
 actctctaaa acctactact ctc 143

<210> 34298  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-E12



<400> 34298

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ttaaataagg gtgggcccac cctactccat ccaccaacc aaagtttacc acatcatatc 120  
ctattttctca agaacatctt ccaacatcat ccacaccacc atcctttctc tcctctccat 180  
catacatata tcctactcca tccttctacc ctaacctctc ttc 223

<210> 34299

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E5

<400> 34299

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cttaggaata cctatggtca gcatgctcct ttatgtctgg agccgagaga atccaaatgc 120  
tcagataaat atatacggcc tcgtccaatt gaggtccttt tatcttccat gggctatgct 180  
cttattggat gtgatatttg ggtcatcatt aatgcctgga cttctgggta tcatggttgg 240  
acatctctac tacttctttg cagtgttgca ccctcttgcc accggaaga actacctcaa 300  
gactcctaaa tgggtacata agattgttgc tcgattcagg ataggcatgc aagcaaactc 360  
acccgtccgg ccaccagcca atggcaacag cgggtctgggt gtgttttagag gaagaagcta 420  
taggctcaat caatagattc actgattcat 450

<210> 34300

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E6

<400> 34300

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttggatc cttttaata ttcaaacttt 180  
accttcaatt atattaaatt tattatTTTT tttataaaat cccttaaatt gatttaatta 240

tctaattttt caaactttta aaacttttta aaaaatttgc attttaccta ttttaatttt 300  
 ttataaaaatt ttccccctttt ttcaattttt 330

<210> 34301  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-E8  
 <400> 34301

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 gatagctagc atcatggcgt ccaaggcgct cctcgtggta gcgctcctgc tcgccgccac 120  
 cttcctcgcc gcctccgcta acgagcaagc ccaggcggcc aaagaggaga agaaggcgga 180  
 ggtccaagac tggcacggcg gcggcggcta cccggggcac ggcgggcgcg gcagcggagg 240  
 ctaccggggg cacggcggcg gcggcggcg cggtaccgc cactgccggt ggggctgctg 300  
 caaccggggg taccatggcg gctgccggtg ctgctcgcac cctgatcaga taccagagcc 360  
 catgtaccgt cctgagctcg tcgagggtcca caactaaata gtaatgagat gcgctgctac 420  
 tatatatagc ggtacgtatg cccgatggga agc 453

<210> 34302  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-F1  
 <400> 34302

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 cagacgggtg ctgttgaggt catcaagagc gtggagaaga aggaccaac tggtgccaag 180  
 gtgaccaagg ctgcagtaaa gaagaaatga tgcgtcctct catgtgccct cgtttatttt 240  
 gtacttgctg ccgtatactt cgatctgtta aaatctattg gttgtgtgcc ctgtgtctgt 300  
 tgtttgggta tctatactgt tattttgaga catgttgact tgcattggta tctggattgg 360  
 gttcgcattt ctgagtc 377

<210> 34303  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-F10  
  
 <400> 34303  
  
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 gtgctgctgc tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcaggtg 180  
 agctccgcca tcgcgccctg cctctcctac gccgcggca cggggtccgg cccctccgcg 240  
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<210> 34304  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-F11  
  
 <400> 34304  
  
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 gcctgcgcca cgtcccgcc cgtcctcggt cgccccgcgc gcaccgcgcg gccccacctc 120  
 gccgtttcct catcctcccc cgcctcctcg atccgcttcc cccgcggcgc cgacggcggc 180  
 gccagcagag cggccgtctc tctccgcgcc cccacgcctc cagtctgtga ccccaaagc 240  
 cttcttttca tgtttgaat ggagctggac tacagcgacg ccctcattgg tggcggttc 300  
 ttgttcaga atccaaacgc accaaaaacc tgtgggtgcg gcaaactctt cgcgactgga 360  
 aag 363

<210> 34305  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-F2

<400> 34305

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gtgatcaact gtctagttct ctactcgacg cggacaccct gacccgcgcg cgcgcgcgtgg 180

ccatggtcgc cgccgccgcc gccatcctcc tggctcctgcc cgtcgtcgcg gtcctcgcgt 240

cgtcgtccgc ggcggcggac gggtcgttca taacgtggga cgacctcagc accccgtccg 300

ccgccnccgt gcagggcggc gtgaaggcgg ccagcggggg aggcgcccgc gagctggaca 360

cgatcgtggt ggcgcaggac gggacggggc actcgcgcac cgtgcagggc gcagtcgaca 420

t 421

<210> 34306

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G11

<400> 34306

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ccgactcgtc ttctcctgc tctccttgc cccgcccctc gccggcgcgt ggggaaagga 120

gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcggc 180

ggtgaaggcg ttgctgccgg agtctgcagt cggagagctg tcggcgggtg gcccggtggg 240

ggaccatgtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300

agtctgcaac ttcaagtttt ctggggactg cca 333

<210> 34307

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G12

<400> 34307

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aaggtaacat aactaaagat agaacaaaaa aaatctaaat aaactactac taaatacata 120

ccccatttca cacactacgt catcaaccat ctattccaca ccaatgccaa ttaccttccc 180  
 tttatcctat tattactcaa cgccctctaac tcacaatcca agctatctac cactgcctct 240  
 gctcggacca cgaccacaac caccttaagg cgttcgcgct tcacgtgcc ttaccattac 300  
 ctcattcctt cct 313

<210> 34308  
 <211> 193  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-G2  
 <400> 34308

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 agaaacaggc aaaaatataa aatatactat aaaaaaacct aaaattaatt tcacttaccg 120  
 ggcccttctct tctttttctc tcttatttac cctcgcgttt cccacttaa ttacctttct 180  
 tctcatcccc ctt 193

<210> 34309  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-008-Q1-K1-G4  
 <400> 34309

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 gtgctcatgg ggcgcgtcga gggctaccgc atcgccggcg gcccgctcgg cgaggtcgtc 180  
 gacccgtctt accccggcgg cagcttcgac ccgctcggcc tcgccgacga ccccgaggcc 240  
 ttcgccgagc tcaaggtcaa ggagctcaag aacggccgcc tcgccatgtt ctccatgttc 300  
 ggattcttcg tccaggccat cgtcaccggg aagggccgc tcgagaacct cgctgaccac 360  
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 tg 422

<210> 34310

<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 34310  
  
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 gggaagcggc ggaatttcca cagagcctga tctccaggtg caagaacaag tgcacggcga 180  
 tatgaaaaac cgcctggaaa tgcaggggtcg caaccggaag cttggccatg aggtgaccac 240  
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 aggcgccggc gccggtgccg cgggcccagg cacgggtggg cataacgtgg gcggcggggg 360  
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<210> 34311  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-G9  
  
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 gcatgggtta catacttcag cgccgtagcg cctggtatga gcctcgtgga gaagcaatgg 180  
 ctagtccacg gggtccatac ttcagcgctg cagcgcttgg tactcggacc tcggctcgag 240  
 gcattttctc tacccttctt taccctgaaa aagcagggtc accttgtgtc cttaaactta 300  
 taaccatctt tcggctaacc tagcctcctc cgtccttccg taccaacaag gggtagtcca 360  
 ggaatattga cctgttgtcc atcgactacg cttttcggcc tgatctaagg c 411

<210> 34312  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-H10

<400> 34312

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gacgagaagc accaccacca ccacctgttc caccacatga aggacgatga gcatgccgcy 180

acctgcygggt acggcgagta cgcgagtagc actgaggcca cggagacgga ggtcatgttc 240

actggcgaga acgactacga ctag 264

<210> 34313

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H11

<400> 34313

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gacctgccac aacattatct catctatgaa cactcaaacc tctcttcaat aaatactgaa 120

tcacaactcc ctacaattct atccttccta ccaattttcc ttcattcattt ctacttatca 180

caccattttt ccattccata aattcctacc catttc 216

<210> 34314

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H12

<400> 34314

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gcagatcggc catggagagc tgggctaccg gtgtggggac aagcgtagc tgcgccttct 120

tcgcctccct cgagcgctgc tctgcatca acctattcac cgacgactac gactacgacg 180

aggaccacga ctaggccaaa gaccggtctc tcatgctcgc cgactacca cgccacgact 240

acgccatcaa gcccgatcca gactc 265

<210> 34315

<211> 452

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E1

<400> 34315

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 cccggcaaata tagcaccggg gttctgatca tctcagccc ttggattcat tccatcctcg 180  
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 cggctgcagc ctagcagtag tagtagggcg cagcagtagt gcaggggtcgt ccaacaagtt 360  
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<210> 34316  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C1

<400> 34316

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 tggggatcat cggcggtcat ctctgcatca tgggcaacgc ccagtatttc atccacaagg 180  
 ccgcgcacgg caggccgaag cacatcggga acgatatgtg ggacgtcgcc atgg 234

<210> 34317  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C11

<400> 34317

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accatcttga tgctgattct ttggttgaca atttcaacat tactaccttt tatgaccctg 180  
 aggccaagaa ttattaatcc tcccaggctc aaaggcattc caaaatctat catccattat 240  
 tcaataatgc catcctcaac ctatcgacta gaacatgaat cagaacttgg actcaatgga 300  
 cactgtgatc ggcatgatat tcaacaacat atcctcttta aaatccccct acattcaact 360  
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<210> 34318

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C12

<400> 34318

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 gcgggtcaga atgggtaccg gcaccgcact gagatgaaca agaaggctca caagatcggc 120  
 aaggctggac aagagaccca cgatgcctcc acagagtttg acaggaccga gaaggacatc 180  
 actcccatgg gtggcttccc ccactatggg atcgtgaagg gtgactacct gatgatcaag 240  
 ggatgctgtg tgggtccaaa gaagagggtg gtgac 275

<210> 34319

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C4

<400> 34319

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 ttccaacggc gagggggcga tcaacatagc ctctgctgct gctctcagca ttgatgacat 120  
 tgtgctgcct cagtacaggg aacctggtgt tcttctatgg cgtggcttca ctctgcagga 180  
 gtttgcaaac cagtgccttg ggaacaagct ggactatggg aaagggaggc agatgcccac 240  
 tcactatggg tcgaaccgtc tgaactatct cacagtctcg tcacctatcg caacacagct 300  
 ccctcatgct gttggagctg cctactctct gaagatggac aagaaggacg cgtgtgccat 360

cacatactttt ggggacggtg ggacaagtga aggagacttc catgcagcgc tcaacttcgc 420  
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<210> 34320  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C5

<400> 34320

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 ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180  
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240  
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<210> 34321  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C6

<400> 34321

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 tcgcagcaga agcatcccgt cccctccgt tctccttget ctgctctggt aacacacaga 120  
 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180  
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240  
 aggaagaagc aatcaagaag aagtttgagg gactaatgcc caaaaagccc cactcatct 300  
 caaaggatca tgagcgggcc tactttgatt ctgctgactg ggctctaggg aagcaaggtg 360  
 ttgcaaacc caaaggaccg ctggaggcac ttaggcccaa gcttcagcca acacgccaac 420  
 aacagcaaca acgtgcaagg cgcctatctt acact 455

<210> 34322  
 <211> 417  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C7

<400> 34322

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gcctgctgga tagtgttctg catgccgctc tgaactggag ctcttcacct gcagcttctt 180

tctcgcgttt catcattcag cgtttagctgg tgatgataat gttggggcga aggccaagac 240

gctatcattc gctcgatgcc ttcgctgcct tcgctcgtctc gcttcaccaa cgacgccaaa 300

gacgccggtc caatgaggac ttcgcgactg gacttcgtgg gcgtccttcg cccttctcca 360

ttgcgagacg aaggcaagac tccgacgatg tctgctagcc tcacgtntctc atcgggt 417

<210> 34323

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C9

<400> 34323

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cccatcgccg tctctgattc tgttcagtaa ggcttcgtgc cttagtgaat tctctcgca 120

tctgtagnat gttagtgttg ttgagtccaa aaaaaaanaa aaaangggcc ggcacgcttc 180

ttagaaagga tcctaagnca ttacgtnatc gcgtgccatg cngactgnnt catagctttc 240

ttctaattag tnggtcacct taannattca tattcacttg gcannngtcg ttttaccac 300

ngnntcgtga cctgnnggaa aactntnctg gcgttaccac aaaacttaat cgccatttgc 360

agcacaaaat cccctatttc gccaaagcttg gcnngtaat a 401

<210> 34324

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-D1

<400> 34324

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agccgcggag cttttgattt aaccggccgg ttggtcagcc agccagccag ccagccactc 120  
agtactgcac actgccatcg ctctcctacg gtactgctgc ctaccgcgcg tctcgtccct 180  
tcgctgccgc tctatctatc tcggccggag ccatgggcgg cgggtggcgcg gcgctgctgc 240  
tgctggtgat gtgggcgggc gtggcgctcg cgccgtgta cgaggtgggc ggcacgattg 300  
ggtggaccgt catgggcaac cccgactacg ccgntgggc cagctccaag cagatcgta 360  
tcggcgacac tgttgtgttc acgtataaca agcagttcca caacgtgctg gcggtgagca 420  
aggcggacta caagaact 438

<210> 34325

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D10

<400> 34325

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ccgcatcgcc gccgcacagt gactgtccca gcgttgtttt gtgtataatg atcgatatgt 120  
tgcttgtttt ccgaacaaat caaatgctat caaatatagt gatctgagtg atgagc 176

<210> 34326

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D11

<400> 34326

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agattgctgt gatggctggc ttaacagcgg gtatcacctg caaggcgtga ccgcaaactc 120  
ggaaagcatg ggtgtcggtg tcgctacgac ggtaacgacg cacgcggccg ggcagcaacc 180  
ggcgatgtgg tcattttgcy ttctcgacat ggggacgacg acgggtgttc cgccgcacc 240  
gaatctcagt gtgccgacgc aaacgaactc gattccttcg agcgtgggac agcaattcgc 300

gacgaacctg atcggttcacg cgccgtacat tgacgaggcc agtgtggcga ctgcactgac 360  
gcttgggggaa gtcccgaatc cggcaccgga tctgggggcg cctggggcgac ccatcatggt 420

<210> 34327

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D12

<400> 34327

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<210> 34328

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D2

<400> 34328

cccacgcgtc cgcccacgcg tccgcgaggg acaccctgac aagctctgtg accaggtctg 60

agatgccgtt cttgacgctt gccttgctga ggaccctgac agcaagggtt cttgtgagac 120

ctgcaccaag accaacaatg tcatggtctt tgggtgagatc accaccaagg ccaatgttga 180

ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 240

gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatattgc 300

tcagggtgtg catggccact tcaccaagcg ccccgaggag attggagctg gtgaccaggg 360

acacatgttc gggatatgca ccgatgagac ccctgagttg atgcccc 407

<210> 34329

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D4

<400> 34329

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agaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaaaaaaaaa aacaaaaaaa 120

aaaggccgcc ccttttaaaa aaccaactt aactccccct tcattgcaac tcaaaacctt 180  
 ttttaagggc tccccaaaat caaattactt gccctctttt taaaaactcc taacctggaa 240  
 aaacctggc tttcccaa ataaaccctt tcaaaaaaat ccccttttcc caacatggcg 300  
 aaaacccaaa aagccccctcc ccaatcccc ttccaaaaac ttccccaccc taaatggcaa 360  
 ttggaacccc c 371

<210> 34330  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-D5

<400> 34330

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 ccgcctcctc cgccttgccg ccaccctcg cctcgcgccg cccttcgctg caaagggtccg 120  
 tgcgtctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgccggcgg 180  
 cgagctcacc gccccaccg agggcatcgg caagccgctc gccgaggtgc tcaaagagct 240  
 cgggaagagg gttccggact cccttgtaa gaccgcgctc gagaataatg gcttcgctat 300  
 caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360  
 gggtgaggta cgcagcattg gttactcatt tgacgggaaa acagtatctg ttgtctatcg 420  
 agtgactctt catgggaatg atgcanagat cta 453

<210> 34331  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D6

<400> 34331

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 ggtgtttaca catattgaca ggacacaact ctccagttta ggctttgcca aaaaccata 120  
 tagaataacg agcatactca aacgaccacc actccaagca caccatcatc gccaacctga 180

cggagagctt ctcgtactcc cacataccat ataaagagaa tgcctcggag gagaaccctg 240  
tccatggtac cATTatgctc ttgcacatca tctggggata cgcatactaa catctaggaa 300  
tatgtggtga catacattgt ccaaAtgctt ccaattcttg atgattactt ttttatcgac 360  
tgacttaac 369

<210> 34332

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B8

<400> 34332

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aaggctcagg cgcatttcta aatcaaccac ttccaaacta ctccacaca tatccaattt 120  
catatccata ctaaAtattc acatttaatc tacttacttg attattatat taaaatatat 180  
aatcctgcta caacctaact tttcttactc tactcacata actttcaaaa catactcata 240  
catttcaata attoccaaact acaataatct ttatacactt tatccactat ttatatccat 300  
attactcaaa tttttatc 317

<210> 34333

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D8

<400> 34333

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cgacccgcgg cgggcgcgag aagacggact ggttcaacgc gcccttcgtc gcctcctacc 120  
gcggcttcca cgtcgacggc tgcgaggcct ccgcggagge gcgcttctgc gccaccag 180  
gcgcgcgctg gtgggaccag ccggagtcca gggacctcga cgccgcgcag taccgccgcc 240  
tggccgacgt caggcgccgc tacaccatct acaactactg caccgatcgc gaccgctacg 300  
gcgccgccgt gccgcccag tgcgcccgcg accgcgacgt ctgatgatga tgcgttgggc 360  
cggcaagctg cttgatcgag agcagcctgt aatgtatgta tggatatgta ttggtgtgtg 420

tcaggttcgt cgtcgtgggt ctgcagagac ac 452

<210> 34334

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H9

<400> 34334

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aggggaaatc tgtggagtca gcacagaaag atttcttga ggcaaagcac cttgccgcac 120  
aacttgttct tgatatacctt gattctattg taccccatga gaaccgcata ttggtcaagc 180  
ttcttgagac atttgaaatt gagttgagag acatggccccg tgctttgtat gattcatagt 240  
tggacgatgg tgatctaatt aaagcacgtg aacatctcag acagcaagtt aagcgctcta 300  
tggaatcaga atccaatgca cttgctgtga ctctaataac acatttttcc atccaatgct 360  
gtgatgagtc cttcatcata taattgatta aaaacaatca tttagagatt gcagagcaat 420  
tgtgctattt tcatgggcaa ggaaat 446

<210> 34335

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A1

<400> 34335

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gctgagttca agtctggtgc agagaggaag gatgctgcgg agagcaccat gaatgcctac 180  
aaagctgctc aggacattgc tcttcagat ctgggtccaa cccaccccat caggcttggc 240  
cttgcctcctc acttctcagt gttctactac gagatcctga actcccctga tcgcgcctgc 300  
aaccttgcaa aacaggcctt cgatgaggcg atctctgagc tagacagcct gggagaggag 360  
tcctacaagg acagcactct gatcatgcag cttctgcgcg acaacttgac cctatggact 420  
tccgacacca acgaggatgg cggcgacgag atc 453



<210> 34336  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-A12  
  
 <400> 34336

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cggcctccac aagggaaca tgcacaagga cggccaggcg gggcgggctg cggcgggccc  180
caggactgcc aacggcaacg gtcggcggg cgccccggac atcttcgaga gccccgccgt  240
cgtgtccctc acccgcgccg gggtcgagaa cctgctgcgc ctggagagcc tcgccgagcc  300
gtggctcgtg gtgctgtacg cgccctggtg cccgttctgc caggccatgg aggctccta  360
cgtggagctg gccgagaggc tggcgngtc cggcggcgtg aatgtggccc ggttcgcgc  420
cgacggcgag cagaagccgt tcgcgcaggc cgagctgcaa ctgcaga                    467
  
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<210> 34337  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-A2  
  
 <400> 34337

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gagcgggttc gggcgcccg agcgggacat cgacgatctg ccgcggaacg acgccaacta  180
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cctcgcatcc gccctcgcgc gcctatccgt cggccacgga agcacggttg ctgtgatagc  360
tcctaattgt cgggctgtct atgaagctca cttcgggtgc ccaatgtcag gagctgntgt  420
gaactgcgtc aatattcggc taaacgccga gacaa                    455
  
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<210> 34338  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-A5  
  
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 tgtcactggc gatctcatat ccgacccttg ctgctgtgcc ccacatgttc atcaatgggt 240  
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 tcaaggagta cctcaaggac ccaagcaagt ttgctgttgc ccgcccggtt gctgctgggtg 360  
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 cggacgagga aatgggcttc agcctcttcg a 451

<210> 34339  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-A6  
  
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 cggcgagcgc gagcctcggg cgcgcggcgg cgacggcaag cgggagttcg cggccacggc 180  
 gctgggcgcg ctggcggttg ggctcacgca ggcgcggttc gtgctggccg cgggcgcgct 240  
 gacgggcgcg tccatgaacc cggcccgtc gttcggccc ggcgtcgtca gcggccactt 300  
 caagaaccag gccgtgtact gggccggccc gatggtcggc gccgccgtcg ccgcgctggt 360  
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<210> 34340

<211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-A8

<400> 34340

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tctccccacg cccgcgaacg ctagggttgt tgccgtggtc accggcggca acaaggggat 180
cgggctggag gtgtgccggc agctggcctg cagcggcgct accgtcgtct tgacagccag 240
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cgagaccggt ttcgggaagc tagacatcct ggtaaataat gccgcgattg gcggngttga 420
gtatgttcat ga 432
  
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<210> 34341  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-B10

<400> 34341

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<210> 34342  
 <211> 445

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-008-Q1-K1-B11  
  
 <400> 34342  
  
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 agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgctctc cgtcctgcgt 180  
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 catcactcgt ttatctatcc ctaatacatg cgcgcacgat tgtactccca atgacgcgca 360  
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<210> 34343  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-008-Q1-K1-B2  
  
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 aatctatggg caatgtcaac acaggcttgg ccgatgagaa aatttcgaag tgcgtgaaag 180  
 aagtggctctg ctgcagttcc gaccagacgc aaaccgatca agatgaccag gatgacggaa 240  
 gctgcgtcat ctgcctggag ggttacagag acaaggatat gctggggata ctgaaatgca 300  
 ggcacgactt ccacgccggc tgcacaaaga agtggctgca gacgaagaac tcgtgcccgg 360  
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<210> 34344  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B3

<400> 34344

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aggggatcac caggatgcag gtgcccttca gcttcaggcc caaggacttc ggatccgctg 180  
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agaaggagga cgacgatgac gacgacgaca actgaagtga ggactgctgg ggcgctgctg 360  
ttacctttca cgaaacgcag cgaagcagag gatgcgggga tcgtcgtcga cctgataccc 420  
atacccttag cgcttggtta gctcttggct ttagcttatg g 461

<210> 34345

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B5

<400> 34345

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tctagctcta gcctctagcc ctagctagta gctagccact cggtcgtgta gtcacagacc 120  
ttctgatcgt caccatggc cactgccgag gtccagaccc cgaccgtcgt ggcgaccgag 180  
gaagcgccgg tgggtggagac cccggctccg cccgccgtcg tgcccagagga ggctgcccc 240  
gccgccgagg ccaaggtgga ggagccagct gccccggcgg agaccgagcc agctgccgtc 300  
gctgagcccc agggggcccc cgtggcggcg gaggaagaga cgccaaagga agaagagacg 360  
gcaaaagatg cggagccgga gccggagccg gcggcg 396

<210> 34346

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B6

<400> 34346

cccacgcgtc cgaaaaaaa ataaaaaaat taaaaaaa aaaaaaaa aaaaagaaaa 60  
 agaaaaaata aaaaatataa aaaaaaaaa aataataaca actaatTTaa aataatcaaa 120  
 agttctttcc attttcaacc atacttcttt cctttccttt attttcaact tatttcattt 180  
 actttgctgt cctttaactt catttaccct gcctactctt tacatcatcc ccaatttaat 240  
 aaactttcgt cttttccacc ttattccctt ttccatattt ccccttt 287

<210> 34347

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B7

<400> 34347

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 acgcatggct gtgtcgacca cttgcagacg acgccgacac agatccaggt ccaggtccag 120  
 gttaagtatt gttttttggt gtgtggacgt gattcttcta gtgagatatg ttctgaagcg 180  
 gcaaggtaaa ccctcttagt ctacttgttt aactttttaa atatacccat cggtttgaat 240  
 gatgcaaaac tacaataatc ttcatgtact tgattgacta atgagttgga tatgattcgt 300  
 attctatttc ttaaaaaagt aaggcagaag atagctagat tcatgatttg gcaaatacaa 360  
 cctcaaatta acttgectat tcatcgatta tgttcaggaa ataatgtatc aattaattga 420  
 aggaagtaat agtagtggct catctagaac 450

<210> 34348

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H8

<400> 34348

gcggacgtcc atcgagcaca aggcttccaa tgtagcacag tcccaatccg gagaaggcgc 60  
 ccggggagca caagccgacg ccggccacgt acaccccgag ccccaaacc acgccgccga 120  
 cttacactcc aagccccaag cctcccacac accctacgcc caagccgacc ccaccgacgt 180  
 acacccttc cccaaagcct gcgacgcca agccgacccc accgacgtac accccttccc 240

caaagcctgc gacacccaag cctccgacac ctaagccgac cccgcctacg tacactccaa 300  
gccctaagcc accggctacc aagccttcca cgcccaagcc gaccccgaca acgtacaccc 360  
ctttgacaaa gcctacgaca cccaattcga accctgctgc gtacacccct tttttc 416

<210> 34349

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F7

<400> 34349

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gctgatccag gaaatgcatt tcttgtgcc tcccttact acccggttg ggataggag 120  
ataaaatggc gaactgggtg tgagttgata cctgttcctt gtcgtagtac tgataacttt 180  
aatgtcagtg tcaactgctct tgaaatagct tacaacagg caaaaagcg aggaataaga 240  
gttcgtgggg ttctcatatc taacccttcg aaccaacgg gaggcattgt gccaaaagaa 300  
atactgcatg accttctaca gtttgctgca gagaagaaca tacacttaat ttctgatgaa 360  
atatttgctg gttcaacata t 381

<210> 34350

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G1

<400> 34350

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ttgaatctgc ttttatatat atatatat atataatatt cctacggagg tgggaggagg 120  
agaggtggac gaagaatagt gtaacgatga taatggtggt ggttgagggc ctgaaacgat 180  
gaacacatgg ggttgggttg ggtgtatgta tctgtcacac gcagcttttg tgcaagacta 240  
ttatactaca tcgctggtcc c 261

<210> 34351

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G10

<400> 34351

tcccacacat actaaaaaat tataaataat taaaaaaaaa aaaataaaaa aaagaaaaat 60

ttgttaatat aaaaaaggat aaagtacaaa aaaataaaaa ctaatatata ccaatataaa 120

cataattatc ttcaattctc tggtcactct attataacct tctgactttg aaaaacttac 180

ttttttctac ttaatccaac tttaaacata gtccgtttta ttcaattctt tttaactgaa 240

caattctgta cctttcccac ttataacat ttgtcagac ttctgttta atggaattca 300

tcttttatcg gcacattcat ctctacattc tttt 334

<210> 34352

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G11

<400> 34352

ccactcgacg cacacatccc aaacaaaacc ctaaaaaaat ttttatgatt aataaaaaac 60

attcttggcc aaggctatct gtacaaactt aatggcatta aggccaaaat ttacactct 120

tactatgaaa taccaatacc ccctacttcc cctattaatc actacttcga tcccgaaagc 180

cccacaattt gaccagctta ctatgatggt atcccatgct aatttatcca gatcgattaa 240

ttgctattag cactctaatt tattcaaatt aacaacagcc ggacacacta accggccaat 300

ta 302

<210> 34353

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-G2

<400> 34353

cccacgcgtc cgggtccaatt cgggtgcctgg ctaactccgc acgtcttccc cctttttcgc 60

tcccccgacc gacgaccgtc cgtccaccac cggatccagg agcgaccctc cctcgtgctc 120



gtcgcacgac gaccggccgc cgatcgcca ggaaggatgt cgagcctcga ggagccgctg 180  
 ggtctcggag acctgcctaa gttgagtatt aacagactcg ggcggttcgt gtcgctgggc 240  
 gctcggaggc caccggccga cgacgacgac cacagcactg gcaaatacag cagcagctcc 300  
 tgcaacaatg gcagccctca gatggcattc catcatggca gcaactcctn ctatccctgg 360  
 caccgc 367

<210> 34354  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G3

<400> 34354

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 accagtgatt cctgcgggca ctggtctccg cctaggtccc aggaggccag gaccgcctcc 120  
 ggccctccgc gactcgcggt gtccaccggg actggcttgc cgctgccagg ggctccatcg 180  
 cccagtaccg gctccggtac acaagcggaa ggcggccgag taccaagacg cagcagcagc 240  
 gcgaggcgcc tgggtctccac ctctctctggg atcaccaccc aagaaaaggg tgcgcggcgc 300  
 ataggcgacc actgagattt tattctctat ataacatttg gcttgcaa atctcaatgt 360  
 caagtgtttc aaattctatt gctgtgggtc ttccaagcta tgggctatat ctagagacaa 420  
 ggttctcac 429

<210> 34355  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G4

<400> 34355

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 accggggatt cctccgggca ctgatgtgcg gctaggtccc aacatgccag gaccgactgc 120  
 ggccctccgc gactcgcggt gtccaccgcg actggcttgc cgatgccagg ggctccatcg 180  
 cccagtaccg gctccggtac acaagcggaa ggcggacgag taccaagacg catcagcagc 240

gcgaggcgcc tgggtcttcac ctactttggg atcaccaccc cagaaaaggg cgcgcgggcgc 300  
a 301

<210> 34356  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G6

<400> 34356

ggcatgtgtc tggttggaag agacgctaaa gaaatttgac cgcatactgg ttggcatatg 60  
gcactcccag gactttctga atgggtgtgtg cactaacatc atccatatgc agaacaagaa 120  
gctaaagtta tatactggga attatgacca atacattcag acacgctccg agcttgaaga 180  
aaatcagatg aagcagttca agtgggaaca agagcagatt gcatcaatga aagagtacat 240  
tgcacggttt ggccatgggt ctgcaaagct tgcacgtcaa gctcagagca aggagaaaac 300

<210> 34357  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G8

<400> 34357

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gtcgtgggtg agcggatcga gatggcgggc tcggatgttg agtaccgctg cttcgtcggc 120  
ggcctcgcct gggccacgga cgaccactcc ctgcacaacg ccttcagcac ctacggcgaa 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
gtcaccttct ccacggagga cgcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggcc gcaacatcac cgtcaacgaa gccagtccc g 341

<210> 34358  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G9

<400> 34358

cacagagaca tcagagagcg gtcctccttg tgagtctgag ctgaagagga ggaggaggag 60  
gaggagaagc agcggcgagc cgggaggagg gagagcgaag atgcgccgag tcgcgctgtt 120  
gctcgtcgcc gccgtgtgag cgctggcgcc gccggctgcc gcggtcgtca ctgacggtct 180  
tctcccgaac ggcaacttcg aagatggccc gcccaagtcg gcgctggtga acggcacggt 240  
ggtgtcgggc gccacgcca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300  
gtcggggcac aagcaggggg acatgctgct ggtggtgccg caaggcgagc acgcggtgag 360  
gctgggcaac gaggcgtcga tccggcagcg cctggacgtg gcgcgcggcg cctactacgc 420  
catcacgttc agcgtgtgag cgacgtgagc 450

<210> 34359

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H1

<400> 34359

gcggtaaaaa tggagagctt gatgaggccc aaggaattgt aaatcagatg gtggataggg 60  
gtggtttgag tgacaccaca acgttcaaca ctctcattgt tgctctgtgc tcacagaatc 120  
gacttgagga agcattggac cttgcacgtg agctaactgt gaagggactt tctccagatg 180  
tctatacttt caatattttg ataaatgccc tttgcaagggt aggagatcct catcttggca 240  
ttcgattgtt tgaggagatg aagagcagtg gatgcgctcc tgatgaagtt acatacaaca 300  
ttttgattga tcatctttgc tcaatgggga agcttgtaaa tgctttggat ttattgaagg 360  
agatggaatc caatggttgc cctcgagta cagtgcata taacacaata attgatg 417

<210> 34360

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H10

<400> 34360

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tggagctcaa gccgactccg ggcacgtaca ctccctagccc caaactcact cctccgactt 120  
 acactccaag cctcaagcct actacacact cgacgctcaa acctacctct ccgacattca 180  
 ccctttcccc atatcctatt actcctaaac ctaccccacc gacttacact cattcatcaa 240  
 agccttctac tctaatcct cctacac 267

<210> 34361  
 <211> 203  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-007-Q1-K1-H11  
 <400> 34361

aattcccagg caggcagggtt ttccgaggatt gcaggaagac cgaataccga tgcgtgctgg 60  
 ggctcgttac tggaacttta cagtacccca aaatctcata tccttcctgc ccgcccggcc 120  
 gtccccgtct actcgtcgtt cttgtcttcc gcgctccacc ttctttttct cctacttcat 180  
 cttaatcgga tactctcata ttc 203

<210> 34362  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-007-Q1-K1-H12  
 <400> 34362

aaaatggata tgccccactg caccttcaag acccgtgtca gtgtttggcg ggttccccgc 60  
 cacagcatgg tttgatgttg ctgatcttcc tgaggatgct cctgatgaca ttgagggaaat 120  
 cgatgcctca gcagcacatg ttgcgaattt gttgtcaact gaacctgctg acatcaaact 180  
 tgggtgttggc ggcttttagta tgggtgctgc tactgctctg tactctgcaa cttgctttgc 240  
 ccatggaaaa tatgggaatg gcaaaccatt ccctgtgaac ctaagtcttg ccgttggtct 300  
 tagtggctgg cttccatgtg ccaggacctt gaagaacaga attgaagcct caccagagtg 360  
 tgcacaaaag gttcatcaa tacctctttt gctctgtcat ggaaaagctg atgatgtagt 420  
 tgcctacaag cacggggaga gatctgctgg 450

<210> 34363  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-H2  
  
 <400> 34363  
  
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 tgggaacgtg taagacgtct cgtggaccaa gccatattac tcgcatgga gagaagcctt 120  
 cctcgacaat gtcttgttcc acatcatcca gttctatgtc aaggagttgc ctgacaacac 180  
 cttagacttc ttcacctgt actactgtgt tcctcgtcac ctaccaagc ctgtctacga 240  
 atccttctat gtcattct 258

<210> 34364  
 <211> 236  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-H5  
  
 <400> 34364  
  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa 60  
 gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactaaaaa ataaaataat aacaaatata 180  
 ataaccttaa aaaaaaaaaa taaaattaca taaaaaatat aataacataa taataa 236

<210> 34365  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-H6  
  
 <400> 34365  
  
 cacgtcttca gcaaggcaga gttccatgtg cttatcctcg gagttcataa ggctggcagg 60  
 acgaccttgc tagaaaagtt gaagtcgac tacttgaagg gagaagggt tccgcatgat 120  
 cgtattgttc caacagttgg ccttaattatt gggcgtattg aagatgcaaa tgtaaagctt 180  
 gttttctggg atctgggagg ccagcctggc ctacgaacaa tatgggagaa atattatgag 240

gaagcccatg ctgtaatata tgttatcgac tctgcttctg catcatcatt tgaagatgct 300  
 aaatctgctc tcgagaaagt tctccgtcat gaagatctgc atggagcgcc aatacttata 360  
 ttgcaaaca agca 374

<210> 34366

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H7

<400> 34366

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 gactgccaat caagcgagcc accaggtttg agaataaggt gggatccaag aatgtagtgg 120  
 ctggtgaatc actgatcaaa aagcggattt ttgagagatt cttcatcgat ctagtggccg 180  
 gtgaatcact gatcaaagag cgagcagccg ccgggtttta tgattttgtg ggatccctgg 240  
 atgtagcggc tggcgaaccg cttcttcttc cacaaagatt cagacaaaac cgagcttgga 300  
 tagaactgaa gaagatttgg cgaacgaaga aaaaggtaaa agggtttcaa attaataaaa 360  
 tagaaggagg ttattcaata tccattgcaa gttttattac ctttc 405

<210> 34367

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F5

<400> 34367

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 gaaacgtgaa agcaagggtg tgagatatta atagcatggt agttaagaga tctatacaat 180  
 tagatcttat ctacatctc cggagtatcg taaaccaagg tatatctgat atgcttggtc 240  
 agcattctcg agtaatctcc tcagctcggg ggttcagcc tgaagatagc aggtagctgc 300  
 agtagcttgc ggaatcttct actggtacat ggacaactgt ttggactgat ggacttacca 360  
 gtcttgatcg ttacaaagga cgatgctatc acatctagcc cgttctctggg gaccagatc 420

aatatatctg ttatgtagct tatccattag acctatttga agatgggttct gttactaaca 480  
tgtttac 487

<210> 34368  
<211> 214  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D1

<400> 34368

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ccaggggttg cgggccgtta agcagaaaag ataactcttt ccgaggcccc cgccggcgctc 120  
tccggacttc ctaacgtcgc cgtctgccgc cacgttcggc ctcgggaaat cttaacccga 180  
ttcccttttcg ggtgactcgc gtgacgcgtc tate 214

<210> 34369  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D12

<400> 34369

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ggcgggtggct gcgtccttg cgctgctagc cgcacatcg acggccggcg ccgtgacgtt 120  
cgacgcgacg aacacggcgt ccgatacccc cggcgggcag cggttcgacc aggccgtcgg 180  
cctcgactac gccaaagcagg tcctggccga cgcgtccacg ttcacatctgga acaccttcga 240  
ccagcccagc cccgccgacc gcaagcccggt cgacgcggtg accctcgctc tcgaggacat 300  
cggcggcggtg gccttcacga gcgccaacgg gatccacctc agcgcgcagt acgtcggcgg 360  
ctactccggc gacgtcaaga ccgaagtcac cggcgtgctg taccacgaga caacgcacgt 420  
gtggcagtg gacgggcagg gccaggcgaa c 451

<210> 34370  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D2

<400> 34370

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gtgcagccat ggggtgcctgt gcaacgaagc ctaagacgct tgaggggaaa gccccagctg 120  
aggccaccat ctccacaccc aaggttgcac ctgagaccac taccatccac attgaggttg 180  
cggcaaaaca tgcagtagtt gagaaggtgg aggaggacaa ggaggaggca ctaacagtgg 240  
cggcgaaaca agagccagca gccaccattg agcctcagca gattgctagt gaggtgacca 300  
cttcggaagt ggcggtcgtc gttgtcgagc ctgagaacaa ag 342

<210> 34371

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D6

<400> 34371

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gcgggggcat ggagttcctg cagggccaga ggctggagac cacgctggcc gtcgcgggcg 120  
ccgtcgttgc cgtcgcagcc ggctccgcct acctcttctt cgcagtagg aagcccaggg 180  
gatgcctaga ccccgagaac ttcaaggagt ttaaacttgt tgagaagagg cagctgagtc 240  
ataatgttgc caagttcaag tttgcgctcc caacacctac ttctgtattg ggtcttccaa 300  
tcggacagca tataagctgc agaagacagg atgcttctgg ccaggaagtg atcaagcctt 360  
atacttcaac 370

<210> 34372

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D9

<400> 34372

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aagaaggacc acagggacgc cgaggaggcc agcggcgaga agaagcacca ccacctcttc 120



ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agctccggcg cacacaacca 180  
 cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca ataatgagtc 240  
 cctctccgga ccttggtagc tgcttgcttg tggtagtgaga gagtggtgaga ctgagggaga 300  
 agaggtggtg ggcgtggggc tacgtcgaga gaggcgtgtt cctgtaatcc tgtactcgct 360  
 tcgttttctc tgcattgcgtc tataattgtg ttcaataata agtgagagcg gtgtgatgtg 420  
 tg 422

<210> 34373  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E1

<400> 34373

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 cagctagctc gggcggcagc aggcagccat catgtcggag gagaagcacc accacttctt 120  
 caaccaccac aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga 180  
 ggtggtcacc gtcaccggcg agggcgagta cgagaggtac aagaaggagg agaaggagca 240  
 caagcacaag cagcacctcg gcgaggccgg cgccatcgcc gtcggcgcct tcgcactcta 300  
 cgagaagcac gaggcgaaga atgaccccgga gcacgcgcac aggcacaaga tcatggagga 360  
 agtcgctgcc gcggcgcccg tcgggcgcctg cggctacgta ttccacgagc accacgagaa 420  
 g 421

<210> 34374  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E1

<400> 34374

cccacgcgtc cgcccacgcg ttcgaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaag 60  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa ataaataaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa ataaatatat 180

taaaaaaata attaaaataa aaaaaattga gttaccttat aaaataacct aactgaaaaa 240  
acaatttttaa aaccaacta aattatctta taggaaat 278

<210> 34375  
<211> 423  
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<213> Zea mays  
  
<223> Clone ID: LIB3068-007-Q1-K1-E7  
  
<400> 34375

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agcgagcgag ggaaaaaaga aaacatctaa gatatactcc aacatcttcg tttgattaac 180  
ccgcccagta aagccatggg tactaattat agagcgggtca tttctctagt actcctcgtg 240  
tgcacgcgta gccgctcgtc cttgggtgcc gctgaaactg acgttgagca gaagcgcctcg 300  
tcagtccttt tgatgtttgt gttcgggtgat tcgctggctg atgtcggaaa caataacttc 360  
ctgccgccgt ctgcaccccg tgotgcatct ccgtacggca tcgacttccc ttctggcacc 420  
ccc 423

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-007-Q1-K1-E8  
  
<400> 34376

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gacatgcgtc gtcagctgct gacctatgga cgaagaatta ctaccccgaga gctttttgca 180  
agaatagatg ctgttgatgc aaacactgtg aagcgtgttg caaacggatt catctatgat 240  
caggatgcta ctattgctgc tatgggaccg atccaaggac ttgcagacta ctactggttc 300  
agacgcctga cctacatgct ccg 323

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 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-F1  
  
 <400> 34377  
  
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 gtggccgtga gcctggccgt ggagatccag gccgacgcct ggtacggtta ctgctgctgg 120  
 tacacccga ctctactcc ggtcaccccg acccgaagc cctagaagcc cccaccaat 180  
 gggcctaatac eggacaagcc gtccaatgag cacaagccgt ccaaggagca ctgtcccaag 240  
 ccggataatac cgtccaagga gcacaagcct acgccgtcca cgtacacccc gagccccaaa 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-F10  
  
 <400> 34378  
  
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 agcgagagcg agggagaggg atggctgctc cgaagctcgc gacgctggcg ctggccgtgc 180  
 tcctggcggc gaccgtggtg gtccecccg cgcgggtgcg cgcggcgatg tcgtgttcca 240  
 ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca gatgggcggg gccatgccgc 300  
 cccagccgtg ctgcggcggc atccgcagcc tgctgcagca ggccaacaac acccccgacc 360  
 gccgcacat ctgcggctgc ctcaagaacg tcgtcaacgg cgccaacggg agcggcacct 420  
 acatc 425

<210> 34379  
 <211> 179  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-007-Q1-K1-F11

<400> 34379

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ggttgcagac cttagcgcat cgagatggcg gactcgcatg ttgcgtaccg ctgctttgtc 120  
ggctgtctag gctcggccac ggaccaccac tcaactgcaca acgccttcag cacctaccg 179

<210> 34380

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F12

<400> 34380

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agcttctggc ttgagctggg tggtttcaga tcttgtccag tgccaaccag tgtgtatata 180  
tacatTTTTA aggtcttgta acctagataa ttagtgtcaa cttcgaggct gcgagtccac 240  
accttatcta ccgtgcttgt ctctttttct ttatttacac atgcatttat tttgcctctt 300  
attgcattat gcccctttca ggatgaaaga tgctcgaagt tgaaaatata cccaatactg 360  
cagaagggtt accttgaaag aattttgagg aaaccagaaa ttgatgcatt tgcagaggag 420  
cttatgccgc atcaagaaag ctttatta 448

<210> 34381

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F3

<400> 34381

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aaagaaggcg ggcaagcgac aggaaggagg agaagccatg gcgagcgacg gcgacgggaa 180  
gggccgggtc gcgacggcgc cgggggcagg agggtagggc tacggctacg gctacgccgg 240  
cttcgagggg gaggaggacc ggaagtgggt gccgtgggtg gtgcccaccg tgatcgtcgc 300

atgcatcgcc gtcttcgtcg tcgagatgta cgagaacaac tgccccaaga accggagcca 360  
gctcggcggc gactgcgtcg 380

<210> 34382  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C9

<400> 34382

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aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaaaa aatttacatt acataaaatt 240  
caaatattaa atatataaaa aaatagccaa aaagataaaa acaaatcgcc attataaaaa 300  
aatcacaaac cgaaaa 316

<210> 34383  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H11

<400> 34383

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gccaagaaga ttgctcatct cgccaagaag tggcagagga tggctgcaca agggaggaag 180  
cgctcgcct tgggggcggc agcaaagcaa gccgacgagt gctgcagcta tgtggcgagc 240  
aagggccact gcgcggtgta cacggccgac ggggcacggt tcgaggtgcc gctggcggtgc 300  
cttagcacc cggcttcggt ggagctccta caaatgtcac aggaggagtt cggcttcacg 360  
ggcggcgatg gcaggatcac gctgccctgc gacgc 395

<210> 34384  
<211> 436

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-H2  
  
 <400> 34384  
  
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 ggacgtcggc cgctatggcg ggatcaaggt gtacgccgtg ctcagggag acggggccga 180  
 gttcgcccg aacaacaacc tggaggccct gttccaggtg gacgaccccg ggccgcgggt 240  
 gcccgtcaag aagttcctgg acgtgaacga ggctctggag gtgggtccgct tcgacatcca 300  
 gtactgcgac tggagggcgc gccaggatct actcaccatc atgcttctcc acagcaaggt 360  
 ggtggagggtc ctcaaccctc tggcgaggga gttcaagtgc atcgggacct tgaagaaaga 420  
 gctcgacgag ctacag 436

<210> 34385  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-H5  
  
 <400> 34385  
  
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 aagggaaaaa aaaaagagaa ggaaaaaaaaa aaaaaaaaaa aaaaaataaa ataaaaaaaaa 120  
 ataaaaaaaaa ggcccttcct tttatttaac ccaattttcc tttccctca attcaactca 180  
 ttaatttttt attatgttca cctaatttaa tttcatatcc ttttttt 227

<210> 34386  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-H7  
  
 <400> 34386  
  
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 ggacatggcg aagctcggcg agcaggcaga gaggtacgag gaaatggttg agttcatgga 120

gaaggtagcg aaaactgttg actcggagga gctcactgtg gaggagcgca acctcctgtc 180  
tgttgcatatc aagaacgtca ttggagcccg cegtgcctca tggcgcatca tctcctccat 240  
cgagcagaag gaggagggtc gaggcaatga ggaccgtgta acactcatca aggactaccg 300  
tggcaagatt gaaactgagc tcaccaagat ctgtgatggc atcctcaagc ttctcgaatc 360  
tcaccttgtg cegtcttcca ccgtccccga gtccaaggtc ttctatctca agatgaaggg 420  
tgactactac agat 434

<210> 34387

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H9

<400> 34387

gcgacctatg gacctgcac agactgctcc ccctaagttg gccgatattt atgttacata 60

gaatggtagc cctgggtctat ggttaatgaa cgcgctgtac aact 104

<210> 34388

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A11

<400> 34388

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tgaacactaa ccaaccgtac taagcttcta caccatacct aaaattcact cacaacata 120

acatccctct tattaataaac taaacccaat ctattgaccg taaactatct aattcttaca 180

ctacgaaatc tcttccattt cccaatttat ttcctttatt tataccgaca cattcactaa 240

ttttcaaact cttatacaaa ccaactcttt tttttgaacc t 281

<210> 34389

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-A12

<400> 34389

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gaaaaaaaaa aaaaggaaaa aggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa atgaaaaaaa aataaaaaaa agaacatatt ttaaaaaaat ttaataaatt 240  
aaaaaaaaat ggatttaaaa aaaaaaaata aattttaaata aaaaagatat tattaataat 300  
taataaaaat aataaaaaga taataattaa taagaaaata aaaaaattta aaaatataaa 360  
aaaataaaaa 370

<210> 34390

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A4

<400> 34390

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gagtctgaat ttcagttgtt ggtatcaaaa gccatttctg agggatgggt agattcttcg 120  
tatgtgaact caggtgtcaa cggaagcggt gaagacgatg aacatgagaa gctggctagg 180  
tacaagaggg aggctgtatc cataatacac gaatactttc tctctgatga tacaacagag 240  
gtcatccgta gtgtcaaaga gcttgggttat ccggaatata atccgatctt cgtcaagaag 300  
ctcataacaa ttgctatgga ccgcaagaac agggagaaaag aaatggcatc ggttcttctt 360  
ccttcattaa acatggagct gttctcgtct g 391

<210> 34391

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A5

<400> 34391

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tccggcgtct cacgcgcgga tgagggtccg atccgggtgc accagggtcac gatccggggc 120  
 tgcgcccgca cgcgcgcgc cgcggtcgag gcggcggtcg gcccgacgt gtcgcgcgcc 180  
 gtcaccgtgc gggacctcgt gcgcgccgcc gtcgcgctg gtgaccggct ccgttgctc 240  
 ggcgcttcg acacagtctc catcacctc gacgcggcgc cgtccgggat ccttggcagc 300  
 gctgtcgtcg tcttcattga tgttgcggag gccc 334

<210> 34392  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A9

<400> 34392

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 gagggcgtcc tcttggccca aagtcacac agaagaaggc tgctggaaag gatcaatctt 180  
 caggttcaga tttgaaaaag gtcaatgagg ctggtgattt agccggaaag ttggcgaaac 240  
 gaccagcgaa ggatgagaag tccacaaaga aggctgggtga aggagaatca tctaagaaga 300  
 cccaaaagta caattcaaaa caacagaagg atgaaaacct atctgaggat cctgccaaag 360  
 atctgagctt aaaggaaatg ataacgcaa aatct 395

<210> 34393  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B12

<400> 34393

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 gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatttt 180  
 ttcaaccggt gtcactcgta tagtgggtgtt ggggtctctt agacaaactc gggacgggtg 240  
 cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaataattt 300

gaacatgctg ccacctaadc aaaaaatttc atgttttaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aatattatat tattaataaa 420  
 aaaaaaaggg gcggccgttt taaa 444

<210> 34394  
 <211> 163  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B7

<400> 34394

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 aaccaaaaaa aaacgtcaac cttaactggg aaaccctttt cat 163

<210> 34395  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gcatacaagc gcgcgccgcg cacgcgcagc acgcaatcag aacagtgggt gctggagagc 180  
 gcgcggggccg ggcaaggagc aaggacgagg gattgtcgat ggtgttcttc tgcttcctgg 240  
 tggagcagcg gcggacggtg cggagcagca agccggcggc ggggatctgc tcgcgctgcg 300  
 gcgggtgcgc cagcgtggcg gacatggaga ccgccaccag ggtctgctac ctgctcaccg 360  
 tgcaccgncg cacctggcg cccatcatct gcaccttctg tggcgccatg ctcaagtctt 420  
 accgncacta caggctctac tgactctc 448

<210> 34396  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C12

<400> 34396

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cacaagaagg acgaggagca ggccgcggcc ggcggttacg gcgagtccgc cgagtacacg 180  
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gccttcgcac tctacgagaa gcacgaggcg aagaaggacc cggagcacgc gcaccgtcac 360  
aagatcgagg aggaggtcgc ggcggcggcg gccgtcggct ccggcggtt cgccttccac 420  
gagcaccacg agaagaag 438

<210> 34397

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C4

<400> 34397

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ctaggatcta cattttgtcc atgcacattt cgtttttctt ggtcatactt accttagagt 180  
agcaatgtag tagtggaat gccttaacag ggttttagtag catggaaatg ttttggtggt 240  
aaattaatga attaacttga gatgtactag tttgtagttt gcacataccg tcgtgtcaat 300  
gtcttttata ttgaaaaaaa aataataaaa aaaaaaaaaat aataaaaagaa aaattaaaaa 360  
tttaaaaatt ttaataac 378

<210> 34398

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C5

<400> 34398

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ctgaggcttg gcctgccggg caccgtcgac gactgcagcc agccccaact ggtgaaggcc 180  
acgccgccgt cgacgccaaag gggcaagagg cgcgccaccg ccgatgccgt ggaggaagcc 240  
gccggcgccg aggaggcaag caagcgtgac gccgagacgg cggccccggc agccaaggcg 300  
cccgtggttg gttggccgcc ggtgaggctg taccggaaga gctgcttcca gcaggccagc 360  
agcaagcatg cggcagcggc caaacaggaa gcggc 395

<210> 34399

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-E6

<400> 34399

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ggcgcggagg tgcacgtcgg gcacgagctg tgcgagcgca agtcgcgcga gttcatggtg 180  
gagctgggcc tccccgacgg gctcctcccg ctgccagcc tggacgaggt gggctacaac 240  
cggctgacgg gggtcgtgtg gctgcggcag gccgccggcc tgaccacac cttcgggtcc 300  
atcggcaagc aggtgtggta cgacaggga gtgacggcgt tcgtggagcc ggggcggatg 360  
cacggcctcg ccggggtgaa gagcaaggag ctctcatct gggtcaccat ctccgagatc 420  
g 421

<210> 34400

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-E9

<400> 34400

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gacgaggctt cgcgacccat agtaaacgca tacaacagat gacctgactc gtccagctgc 180  
 aggcggcgtc aggcttccga cgctacttct aactccgttc gcctccagtc gacaccgtgt 240  
 cccgctggca cgctgctca gcaggttaac acaatttggc ccagtgtta attgaatcct 300  
 gcttgctgca ctgcggacaa ccatggcgtc gtcgaaatctg caaatgtctg ctgacgacag 360  
 cgtgctgctg ctattaccc actccaatct gaccaccttc gcagctgaca tgcgcgtatt 420  
 gcaacatacc accgtggagg cgct 444

<210> 34401  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F1

<400> 34401

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 ggcaagccaa aaggttatgg cttttgcgag tacaaggacg aggaaactgc tctaagtgca 180  
 cggcggaacc ttcagggtta cgagatcaat ggtcgtcagt tacgggttga ttttgctgaa 240  
 aatgggagga aactgacag aaatagagaa aaggtcgacg atcctcaaatt ttttactgta 300  
 gaagagcctt tcctaccacc tttggagttc tctgttaatc tgagaagttg tattgtcttc 360  
 gttctgtgaa tgataatagt tgcgccttct tcaacc 396

<210> 34402  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F12

<400> 34402

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 acgacggtga cgacgacgaa cgcgggcgct cctgtgtgga acgacaacga ggcgctgact 180  
 gtggggcctc gcggtcccat cctgctggag gactaccacc tgatcgagaa ggtggcgcac 240

ttcgcgcgcg agcgcacccc ggagcgcgtg gtgcacgcgc gcggggcctt cgccaagggc 300  
 ttcttcgagt gcacccacga cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgccc 360  
 ggcgtgcgga cgcccgtgat cgtgcgcctt tcgacgggtga tccacgagcg gtgggtccccg 420  
 gagacga 427

<210> 34403

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F4

<400> 34403

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 ccagcgcaaa gcgatggcgt cgctcaccat gatggcgctc ttccgcgcgc tggcggtggc 120  
 cgcgcctcgc cgccgcggca ccttcgccgt ggtcaggctc gccaaaggctc accgctgcc 180  
 ggagcccgcc acgctagcag caaccgaggc caggcccgcc gccgacggac gccgcgccgt 240  
 catgctcgcg gctgctgcgg cggccgtggc agccatcgcc ggcgccggcg ccgccatggc 300  
 gggccccaag aacgggaccc ccgaggcgaa gaagaagtac gcggccatct gcgtcaccat 360  
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<210> 34404

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F5

<400> 34404

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 gggacaagga gccttctctc gtagaaatca ttaacatcaa gttttagtag agtggagaga 180  
 aggagaagct gacggagctc ctccgcgagc ggctcgtcga gtgcggctgg atggatgaga 240  
 tgaaggcatt ctgcaggac tatgtaagga agaaaggaag aaataatgtg agggtagatg 300  
 acctcattca tgttattgtt ccgaaaggaa gagcatcagt gcctgcttcg gtgaaggcag 360

aactcctgca acgtatccgg tccttcattg ctaccacact ttggtagtca tttatcgtga 420  
cggttgagac taca 434

<210> 34405  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34405

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cacaatgatg aagttgatac tgtagctatt gccccttttg taaaggatgt attggacagt 180  
ctggaatttg caagggggag tgcagattca acatggggct ctgttagggc tgcaatgggg 240  
caccctgaac ctttctggt caaacatgtc gcaattggaa atgaagattg cgggaaaaag 300  
ttctaccgtg gtaattacct caaattctac aatgctataa gagaggccta tccagacatt 360  
cagatgattt caaactgtga tggttcatct agaccattg accatcctgc ggatntgtat 420  
gatttccatg tc 432

<210> 34406  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34406

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acaggggtga cgcgctcgcg cagctgagcc cggctctgcg gaagatcgac agccggttca 180  
tctgcatgaa atccttcgtc gtcaacgcag aaatcgtgga gttcttcttc gttgacacca 240  
ccacgtttca actcaagtac tggactcacc ctaaggatga tcactacgac tggagagggg 300  
tggcgccctcg ggaaaaatac ataaacaatc tgctcaagga tttggacggn gccatcaaga 360

gatcgactgc ggcgtggaag gttgccgtgg gccaccatac catgaggagt gtcagtgatc 420  
atggtgaca 429

<210> 34407  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F9

<400> 34407

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tcgacactta tatcgagctt gacattgggtg accacacatg cgatgatcac cacaagctat 180  
tacttgcata tctagggatt ccaccctatg aactgtcccc aggttgatcc tacaatgggtc 240  
acacatcatt cagatgatct gctcaaagct cgagatgaaa cgctccgtac cgaccagata 300  
caacttatac cggttctcac tgatctcacg tgcgtacact cgccatttcg atcgatatgat 360  
caccatcata tctc 374

<210> 34408  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G1

<400> 34408

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ggagatcctc ggtgactgtg gccgagctgc aatccagaca caaggctcca tgaacaatcc 180  
atttgatca acttttgtat atggttatca gaatatcgct ttcgaggtga tgaaaaacgg 240  
atatattgca actgtcacc tcttccaatc atgagtgtgc cactacatgt gctgctgctc 300  
tgagctctgg ctgcaacaat ggtgggtaac ctgcagaaaag gaagtatgcc gtacttttgt 360  
gcttcagcag cagcaatttc gagtccaagc caactctatg gggcctgggtg acgggtgcttg 420  
gtttatggaa tggga 435



<210> 34409  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-G10  
  
 <400> 34409  
  
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 gctttgcgcg gctcggctac ggcgcgccgt ccgacgcgca gatgttcac aagggtggc 120  
 tgttctatcc gtacggcgcg ccgttgccgc cgggtggccgc cgaaatcgcg ccggatcacc 180  
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<210> 34410  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-006-Q1-K1-G11  
  
 <400> 34410  
  
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 gcagcaggag ctggtgctgc gtcggctgct gccgatcaac aaggccaagg cgtgccggtt 180  
 caagcgcagc tgcttcagcg aggaggacga cgccgtctnc ttcgccatgc ttctgctcgc 240  
 ctgcgtcgtc tgcgccccct ccctttgatg gtgataaaaa tacttttgat tactttggcc 300  
 gcctgcttgt aactaatcaa catgtggatc accatgtgat gccatgacct atgcatgtca 360  
 gtct 364

<210> 34411  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-G12  
  
 <400> 34411

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 tgcgaagagc ttactttgga gaaatagaag gaacatgtat cacacgcgcc aaatttggga 120  
 acgtgccaca tgaatattcc acaatagtag gtattgaaga atccatacaa gaaattttac 180  
 taaatttgaa agaaattgta ttgagaagta atctctatgg agttagagac gcatcaattt 240  
 gcgtcaaagg tcctagatac ataaccgctc aagatataat cttaccgcct tccgtagaaa 300  
 tcgttgatac gacacaacct atagctaact tgagagaacc cgttgatttc tgtattgagt 360  
 tacagatcaa gagagatcgc gcatatcata cggaactcag aaagaactct caagatggaa 420  
 agtatcctat agatg 435

<210> 34412  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-006-Q1-K1-G2  
 <400> 34412

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 gccatgtagc ccagcgggtcc cccctcggtc tcaccggcgg cggcggcaac gacggtgaaa 120  
 actacatcgg gtgctagctc cgacgggtgg gcgtgccctg ttgacgatag ggcacgcggg 180  
 gcgcggggcag cttgtaagcg ttcgatcggc catgtagggc aactatacat ctttggcagg 240  
 tctccatcat cctccgtggg agagaagatg gtaatggagt gcgtgtgtat gtatgtgtat 300  
 gccacggggc gcgcgcgcgc gctctggggc agtcacagta gagatgcaat atcatgtatc 360  
 cagtatcttt cttacaacac anacagtgag aaattattag taaagtgtgc attgtgggtgc 420  
 a 421

<210> 34413  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-006-Q1-K1-G3  
 <400> 34413

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tgccaggaga acgccgcgat actgcgggag ggcacgcgg cgacgggccg cttcgacgtc 120  
 ctgtccaagg acgccgggggt gccgctgggtg gccttctcgc tcagggacag cagccgggttc 180  
 agcgtgttcg acgtctccga gaacctgcgg cggttcggct ggatcgtgcc ggcgtacacg 240  
 atgccggccg acgcggagca cgtggcggtg ctccgagtcg tcgtcaggga ggacttcagc 300  
 cgcagcctcg ccgaacggct ggtctcggac gtcgcgaaga tctgcgcga gctggacgcg 360  
 cgcgcgaccc acgccgtgag ggtcgccacc gtcaccgtcg agcagtcggg cgacggcgtc 420  
 gtggccaaga aaagc 435

<210> 34414

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G4

<400> 34414

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 ggccgccagt tctgaagagg gctatggaca acctattcgt gttaatgaat tggctgatcc 120  
 tctgcacgt tatgctgac tttcgacgt gtcactgctg gtcacggcct tccagctgcg 180  
 gtgttattct gcgaggctct gatagggatg ggccacatct cttcatgata gaacctgac 240  
 gagcttgcta tacatactat actgctgcat tcaccaag 278

<210> 34415

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C10

<400> 34415

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 gcaattcagc ttcaaccatt tggcattcat gtaatatattc atacgagtta aagggtcat 180  
 acctaatcaa gtctgcgggt ctccaattct gaaatacaaa gataatttat gttctcatct 240  
 ttctgaaatg aacaagatga ctggcttatg ggttaagggt tttttataga gcaccatgac 300

ttatcaggta aagttatagt tgtgcacaaa atgtcatttt ttaatcctta atgctgtgtgc 360  
tattcacacc tgtcttctct tgcagttctg tgaacaaccc taacttatgt ggtcctggca 420  
ccac 424

<210> 34416  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-006-Q1-K1-C12  
  
<400> 34416

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agaggagagg aggaagatga gggagtgcac ctccgtccac atcgggcagg ccggcatcca 180  
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240  
agtccttga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300  
gactggtgct gggaagcacg ttccccgtgc aatcttcgtt gatctagaac ccactgtgat 360  
cgatgaggtg cgcactggca cgtaccgtca gctcttcac cctgagcagc tcactcagtg 420  
caaggaggat gccgctaaca atttcg 446

<210> 34417  
<211> 172  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-006-Q1-K1-C3  
  
<400> 34417

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aaggaagggt aaaaaaaaaa agaaaggaaa aaaaaataat aaaaaaaaaa aataaataat 120  
aaaataaaac taaaatatat aaaaaaatat aaattaaaaa tatattaata at 172

<210> 34418  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C5

<400> 34418

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ttttctccga atctaacc aa gggaaacttt catgtgaagg aaaagtcgag cataaatttg 180  
acatggaacc tcacagcgat aatttggcga actatggaaa gttatgccgt gaaagaacac 240  
aaaagtacat ggttaaactc agacaagtgc aggtacttga caatgaccat ggaatgagca 300  
tgaggccaat gcctggcatt gttggtctca tatcttctag ttcaaaggaa aagaagaagc 360  
aagcaccagt gaaaccatct gatgcaaaaa gaactcgtag ggatcgcacg gagatggaaa 420  
acgttatattt caagc 435

<210> 34419

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C6

<400> 34419

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aaagaaaaat ataaaaataa gtgaatgac tataaatata ttataaata tattaattta 120  
tctttttttt atcctttttt atcttatttt ataatttttc tattttaagt taattcttcc 180  
tttttttttc acacttttcc ttataaaaa ttattttctt attctatttt aatttatatt 240  
ctttaaatat ctcatTTTTT caatctttat tctatacaat tttttctact ttt 293

<210> 34420

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-C7

<400> 34420

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tccgtectct ggaacctcta catgatcgcg ttcttcgtgg acgacgtgcc gatccgggtg 180  
ttcaagaaca cgagcgccga cctgggctgt cgggtaccgt tcagccagcc gatgaagctc 240  
tactccagcc tgtggaacgc cgacgactgg gcgaccgcg gcgggcgcgga gaagacggac 300  
tggttcaacg cgcccttcgt cgctctctac cgcggcttcc acgtcgacgg ctgcgaggcc 360  
tncgcggagg cgcgcttctg cgccaccag ggcgcgcgct ggtgggaccc agccgag 417

<210> 34421

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C9

<400> 34421

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tgcataccct ccggacctta gtctcatcac aaaggcaagg cacaatggtc agaactatgt 180  
tttcgctctt cttactggat atcatgatcc acctgctggg gttcagattc gtgaggggtc 240  
gcactacaat ccctacttcc ctgggtgggtgc catagccatg ccgaagatgc ttaatgatgg 300  
agctgttgag tatgaagatg gtacacctgc aactgaagcc cagatgggta aggatgtcgt 360  
atcattcctt tcgtgggcag cttgacctga gatggaagag agaaagctga tgggagtga 420  
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<210> 34422

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-D1

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tatttatgaa ccgttcttaa ggttggttatg gaaaggcaac tggttgttac aagaaaaaag 180

ttgtaagata ttgactgtta taattagtgc acgaccaaag cttcagaatg gcacacttcc 240  
 aaatggagat gcttcgaatt cgaagagcaa gcttacttca acacacgatg tattgagagg 300  
 tttggttgat tggctctgtt cacagctgag gaatcctaca cacccgagct gctctattcc 360  
 tacttctatc cattgnctct ccactttgct aagagaacca tatgttatga cattatttgt 420  
 tc 422

<210> 34423  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D3

<400> 34423

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 gagttgtgtg tacggcagta acggcacgag caaatattta tgttgctcta cctcatatgc 180  
 ttaatgtgta attcagtaaa tatccattaa tacagaccat aatggaatta ctagaaactt 240  
 atattctcat attgtgctat atttatattg atgttttcaa tggttattac actttttata 300  
 gaactttggg tagaggagct catttgccat tgttccttaa tatgcagagt aaattgtcga 360  
 gagccatttg agctaatttt tagtcaacca cctgttcgag ttagctgttt cttc 414

<210> 34424  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D5

<400> 34424

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 gtcctctgcc cgctgcagat catggaggag gaagcatggc aggagtgtct gcatgggtcc 120  
 tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc 180  
 tgctgagctg ctgctgctcc tcttggtcga ccatcagttt gtatttgtcc atgcctcgtg 240  
 tagccggccg tcttcttgcc ctggcttgct cagttccgga aggcggggcaa gcccggtgag 300

gcggtggacag agaccggcaa gtcagagatc ggcaatagtg agctccagca ggagcctact 360  
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<210> 34425

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D6

<400> 34425

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 aggcaatgca atgcagctct tgtttccttc ttcccgtaaa gaaaccgtac tagctgtagc 180  
 tgetgaacgt ttgagtccct ctgctgccac ccttatctcc attgtgccgt ctaacctcct 240  
 tgcttcccct gtgtgaatct gtacggattt tegtgttctg aacctgatt gcagttgaat 300  
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<210> 34426

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D9

<400> 34426

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 gtaccacaag ccggtatgga gaaggcacac ggctgcact gatgactccc cacacgaagg 180  
 tcttctaca gacgattccc catcgtggca gtgctccacc attcgatcct gaaaggatac 240  
 tgagctcact gtctacggtg ctgaactctg tegtgcgtgt taactacagg catgtgcttg 300  
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<210> 34427  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-E1  
  
 <400> 34427  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatgggctt cctatatttaa 180  
 aaatccaaat ttttattcac cttttttattc atttataatt ttttataatg attccccaaa 240  
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<210> 34428  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-E3  
  
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 ccgtcccttg cggtgccaaa ggggaggaga accagggggc tcgtggtgag ggccgccacg 180  
 gtcgtgtcac ctaagtatac atccataaaa ccattgggag acagagtact tgtgaagatc 240  
 aagacctctg aggctaaatc tgatggaggg attttacttc cagtatcagt tcagacaaga 300  
 ccacaaggag gggaaattgt tgcggttggg gaaggagaaa gttttggaag taaccgcatt 360  
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<210> 34429  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-E4  
  
 <400> 34429

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tgtggatgga ctgttcgctt ggcttttctt gattgaattg gagctgcact tgtagtttgg 180  
taacgtttat atacataact atgaggattg cgttacctag aatatgtctt ccagttacctg 240  
ggtgacaatg ggctctaaat tttagagtgt tgtagatttg ttttgttgca aatgtggcat 300  
ggcatggctt ggcttcgagc ttcgagtaact ggtcgttcga gatccttggt ctgtttgcag 360  
ggctgatgcc cgactctcat ctcagcaactt ccattcattgc aatgtggtag ttaacttaac 420  
ttactctagc tactat 436

<210> 34430  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-006-Q1-K1-C1  
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taactatata tacatctcta tccaattatc acattcatca tataccttta tatatacttc 180  
acttttcata gacatcctaa ttgatattatt atttcataca ccaaatacgt catccttata 240  
aaaaacacca cagtcaatgt ttaattctct tcaatacaac aactagttca cttacaacta 300  
cattatcctt taaccatatt atttacctat tctaacttta cattctttta ctgtcaatct 360  
aaaataataa tcatt 374

<210> 34431  
<211> 538  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-005-Q1-K1-G5  
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cgtgatgggc cgaattgggt ttatntgann ttttgggatt ggttggtcgt aatatttctc 180  
caagaacctt gggccagcta tggaggggtct tcttggcttt tcttttgcaa ctgaggatta 240  
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taacgaattt gcaaaggacc tgcgaaagat attctcatcg atacaggact tggatactga 360  
aatcatagtg gcaacagcaa ggacccctga tgctacagca gtatctgcta atgttgctct 420  
tgatgagagg cagatgaatg ctctatttct tgatctggct aaggtgagcg agtcttacgg 480  
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<210> 34432

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G6

<400> 34432

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taacattcaa caaataaaa 139

<210> 34433

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G7

<400> 34433

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<210> 34434

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H1

<400> 34434

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gcggtgctgc tgctggcagc ggcggcgacg acctcggagg ccgccatcac ctgogggcag 180

gtgagctccg ccategcgcc ctgcctctcc tacgcccgcg gcacggggtc cggcccctcc 240

gcgtcctgct gtagcggcgt caggaacctc aagagcgccg tcagcaccgt cgtcgacagg 300

cgcgccgtct gcaactgcct caagaacgcc gtcagggcg tcagcggcct caacgccggc 360

aacgccgtca gcatcctctt caagtgcggc gtcagcatcc cctacaccat cagcaccttc 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H11

<400> 34435

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tggaagacgc atgtctgatg ccagcagcca caggaaaaat agttactata gcgtatactt 120

aacttgtagc atttaagaag ctcaaagatg ca 152

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<211> 428

<212> DNA

<213> Zea mays

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aactgaggca tgcctactac tgctttgagt ccaccagcaa cttatttgca tcgagtctgc 120

attagaggct tgactcctcc aaattaaact cggcgcacct ttgctacaat ttcagctcga 180

tgctacatg aactcgtcgc tgtcactgct cttacaatct acgccttctt cgctctactc 240

atatctcgat gatcgcatag actgacacaa gacctcactc agatccagca agaaactcca 300

tggaaccaa tgctggtatc tgttctactt tctgtacctg ctaggtttga tacgatacca 360  
 ctgactacga caatacattc tctgtttacg atcaacatga gtagacaaat atatgatcac 420  
 aatgactc 428

<210> 34437  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A1

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 atgattttct ttttgttgct ttattttcga tacatgtaaa tgtcgaataa ctagccgtga 180  
 gaattgagag ttcaagccta tagagcttga tatgtttgat caaagtaa atgtatcttctt 240  
 aaaaacatga aagtcaggtg ctttcttttt ttatcctcta taaaaagcac aaagtgatgg 300  
 tgatggtttt ctgtaaaaaa aaaaatattt atatctcatt cattatctta actttttaca 360  
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<210> 34438  
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<223> Clone ID: LIB3068-006-Q1-K1-A10

<400> 34438

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 ttcggcctcc tacggatcca ctctgcacat gcacatagct gaggctaata tcttgatga 180  
 aacaccatat gtatcatggt gcttgagaa ttaactatct acaatgctaa ctgtgtctct 240  
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<210> 34439  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A11

<400> 34439

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aatgccagcc ctgtgcttcc tgaagatcgc aaaaaacaaa gcaacctgtc cacagggtgat 180
cgcgagcgtc ggtatcgtaa tactgggctg cgtcagcgcc gcgctgggga cctactcgtc 240
cgtgaaaaag atcgcagaaa actactaggc actggggaca gtttctctcc gcagaggcta 300
ctaccacacg gttgcacgta cgtccggccg gagctgggga atggtcaggg ttacgtaca 360
cgatctcaaa gttttgctag aactaccgaa attccctgta gattattact ggtatgattc 420
ggaccacaat agtctactta taaaacaaa a 451

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<210> 34440

<211> 332

<212> DNA

<213> Zea mays

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<400> 34440

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tcccaaataa taccatctcc taacttcctg aacacagcac tcaacaaagc aacctgcaca 180
aaggatgatc agaccgacca catccgaata catagcatac tcagccccaa gctctaaacc 240
tactcaccct caaaatatat cgcataacac tactatacac tcgaaacact aatctatccc 300
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<210> 34441

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A2

<400> 34441

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 aaaagaaaaa aaaaaaaaaa aaggaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaata aaaaaaaaaa aaataaaaaa aataaaaaat aaaaaacaaa aatattctaa 180  
 ctatataaaa gatcttaatc acttatacta 210

<210> 34442  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A4

<400> 34442

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 cacggagctg gagacgcggt accaggactc cgggcccagg tgcccgtgtg gggaggacat 180  
 ctcgtcgggg atgcggcggc tcgggtacaa ccggagcgcc aagcgctgca aggagaagtg 240  
 ggagaacatc aacaagtact tcaagaaggt gaaggagagc aacaagaagc gccccgagga 300  
 ctccaagacc tgcccctact accaccagct cgacgcgctg taccgcagca aggcgctcgc 360  
 gtcgctcgctg tccggggcccg gtgcagctcc ggcgct 396

<210> 34443  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A6

<400> 34443

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 aagaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaatc aactaaaaa tacacactaa aaaaaacaa tattagaagt 180  
 cataaaagac caaaataaaa tagaaaaaca aacaacatga aaaaaccaac caaggaaaga 240  
 aca 243

<210> 34444

<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A7

<400> 34444

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tttttttagct cactggccat tcgctgggag tttcgggctt aataccgata ttttagcaac 180  
aaatctaata aatctaactg tagtggttgg tgtattgatt gtttttggaa agggagtgtg 240  
tgcgagttgt ctatttcaag aatagattgg atctatccgg ctgcacttta gaatattttt 300  
agtatttcat ttgataaata agaaaagggtg cacgatctcg acgaattact tctgaataac 360  
ttcagaaatc atatggaaga accatagcat ttcgcgattc attggtaaatt tcactttgaa 420  
tctcta 426

<210> 34445  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A8

<400> 34445

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aggaggagga ggagaagcag cagcgcagcc ggaggaggga gagcgaagat gcgccgcgtc 120  
gcgctgttgc tcgtcgccgc cgtgtgcgcg ctggcggcgc cggctgccgc ggtcgtcact 180  
gacggtcttc tcccgaacgg caacttcgag gatggccgcg ccaagtcggc gctggtgaac 240  
ggcacggtgg tgtcggggcg ccacgccatc ccgcggtggg agacgtccgg cttcgtggag 300  
tacatcgagt cggggcacia gcagggggac atgctgctgg tggtgccgca gggcgcgcac 360  
gcggtgcggc tgggcaacga ggcgtcgatc cggcagcgcc tggccgtggc gcgcggcgcc 420  
tactacgcca tca 433

<210> 34446  
<211> 342  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G11

<400> 34446

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tcgttcgtct gacttgggta taatctccaa agactaatct aaccatatag tagctggctc 180
cctacaaaaa ctccctgatg atacctgtag cccacacgag tcctattgcg taatgccccat 240
gattaaaaag ctacagaggcg caacgccatc gacctattct taaactttaa atcacatgga 300
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<210> 34447

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A9

<400> 34447

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taaggctaca ttcaagtgag ctgagtgcga ggattattct tagtaggagc attgctgtca 180
gacagcttgg ttatTTTTTT ttgtgccgtg ttgggtcgct aagagattag tagttgcagt 240
cgtccgagga tggtaggtga attttgttgc cgctgatgag cttgtctact ggggtgttga 300
ccatgg 306

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<210> 34448

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B2

<400> 34448

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tcgttgaaga gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

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aaaaaaaaa aaaaaaaaaa taacaaaaaa tcaataaata taaatcaaaa aaaactaaat 180  
aaacaaaata caaaataaaaa 200

<210> 34449  
<211> 95  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B5

<400> 34449

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agataaaaaa aaaaaaaaag aaaaaaacta caaac 95

<210> 34450  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B6

<400> 34450

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tcatggggcgt cttcgccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg 180  
acatcaaccc ggggcagctc aagtgctgca ccaactgcaa cttctccttc tcggggctct 240  
acacctgcga cgacgtcaaa aaggactgcg acccgtctg caagaagtgc gtcgtcgccg 300  
tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc ctcggcattg 360  
gcgggcccaa gtgctagatc agagaggaag aacgcgcgct gctgctagct gctatagctt 420  
cgttct 426

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C4

<400> 34451

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 tcagtactta caggcgggtga gtttggcctt cccgacttca gggatgcaat ctctggtgct 180  
 ttcaagttct tgaccaagag tgcaaagcca ggcaaggatg ggccgtctac cagcagtcca 240  
 catactgctg agttgttcag ccaggtcaat catctcagag aggagctgca aatgttggct 300  
 aaatcaaata atgtttccat tgtcactgtt gatggtagac ctggccctgg tgcatacggc 360  
 ataacagctg ttggtattgg aagagctatt ggctatttat tcataagatg gaaggggtgg 420  
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<210> 34452

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C6

<400> 34452

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 gcagggcagc aacaatggcc gtcggctcgg ttgtctcggc cctcctgctg ctcttgcccg 120  
 ccgccttggc tggcatgagc gccaacgccg tcaccttcac catcaccaac aact 174

<210> 34453

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D11

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 tatttggcat attggaattt ggaatccggc tacattgttg tacagacctt tgattgacgt 300  
 agcttgtaga ggatgtatga gtgaacaggc ccatgctttg aagcgaacaa gttataggca 360

tatgggagct ggggatcatc cgagacagat gccgcttcga gtgtcactgt acttg 415

<210> 34454  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D5

<400> 34454

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gaaggggaaga aactgtact ctgcataatg ttcaaattgg cagtggggtc tgttcgatag 180  
aacgttcggg agagcagact cacatgaagc agatccagat ggaagagtgc ctgactggag 240  
caaggcttct gtgcaggata tgaaagatag gttcgtttct tttgggttg 289

<210> 34455  
<211> 77  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D6

<400> 34455

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<210> 34456  
<211> 372  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-005-Q1-K1-E1

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ggaggtggtg gcgcggatgc ccgcggcgcc cggcgacccc gtcgccgcgg cggccatggt 180  
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ggacggccgg tacgagcgcc gctacttcgg cgcgcccgtc tgcaagtggc tcacccccaa 300  
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<210> 34457  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E11

<400> 34457

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 agcatatcac acaaaatcaa gatatggtac atgacgtaca tccttgactg gattatTTTT 180  
 tgatgcccta tacagcgcta agtcttcttg ctgcgagaca aaaagctata tcacgctcat 240  
 acaacatggt ggtacaagat ataacatacg atcattgctc gttcaaatac aacccttaga 300  
 tccaatccta tttaaaaca tacagatacg tttttccgac taatcttgcc tacattga 358

<210> 34458  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-005-Q1-K1-E2

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 tcgtcctcgc gctcgccacc ccggccctcg ccggtgacct cgacatgctg caggacgtct 180  
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 cggcggacga cttcttcttc gacgggctga ggaacccggg caacaccaac aaccggcgcg 300  
 gtcctgtggt gacggcggcc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360  
 ncatggcgcg catcgactac gcgccgggcg gccagaacct gtcgcacacg caccgcgcgcg 420

ccaccgagat catcttctgtc ctcgacggca cgctcg 456

<210> 34459  
<211> 488  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tccgccacct ggcggggcgcc gcggaggcgg cggaggccga gctcaagagg acggcgcctct 180  
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tccagtacag ggactccatc atggactcca ccgtcaactg ccgcgccaac ggcagcctct 300  
tcgacgtcgc ccacatgtgc ggcctcagcc tcaagggccg cggggccatc cccttcctcg 360  
agtcctcctgt cgtcgcccgc gtcgcgcgcg tcagggacgg caccggcacc ctcaccgtct 420  
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acatctac 488

<210> 34460  
<211> 465  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-005-Q1-K1-E5

<400> 34460

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attgtgattg ggatagtggg gatgctcttc tgggtgaaga acaagatatg gtgactggtg 180  
ccatcttgcg atttcacagt tatcatgctg gaaccagctg agttgtcttg tcttcctcgc 240  
tgcaaccata tgtttgatcg tgggtccaaa aagaaaagaa aagatggctc gatgggttat 300  
ccgcatctg ccgattcaag cgactactnt agctatcaaa agcaaaacca cggtagtaga 360

gatagccttg gaactgcaca tttctattaa ctggacatgt ataaatagtt ctctgagcgc 420  
cacaccatgt aatccgtcaa attcatccat gtgggtgtgac atttt 465

<210> 34461  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F10

<400> 34461

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tccttcagcg ccacctccat caaggcctac gtggccgagt tcctcgccac cctcctcttc 180  
gtcttcgcgc gcgtcgggttc cgccatcgcc tacgggcaac tgacgaatgg cggcgcgctg 240  
gacccggcgc gcctgggtggc gatcgcgatc gcgcacgcgc tggcgctgtt cgtgggcgtg 300  
tccgtcgcgc cgaacatctc gggcgggccac ctgaaccgcg ccgtgacgtt cgggctggcc 360  
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gccaccgtgg cgtgccttgc tctcgggttc gtc 453

<210> 34462  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F11

<400> 34462

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cacgtggcaa gtcttcagac acgggtgaac tgacacaggc ccccagcaa gctatcatct 120  
gcgttttctg gtactcatga taagtgtgca tcttgccata aaacagtgtc cccgctggag 180  
aagttaactc tggaaggcga gtcctaccac aagagctgct tcaagtgtc gcacgggggc 240  
tgcatcctca ccaccttctc ctacgccgcg ctcaacggcg ttctgtactg caagatccac 300  
ttctcgcac tggtcatgga taatgggagc tacatccaca tgatgaataa gagcccgctc 360  
caatatacac ttccggacat ggccgtcgac tagcaaccgc cggaaccggc gccac 415

<210> 34463  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F12

<400> 34463

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ggcccttgga accaaattgc cttgccagga aatacctttc tacaaggttg tgttccggag 180
catcataata aggggaagac aaagcaagct gtctgcttat ttgtctatgt ttggtatctc 240
aagtcctgcg gactgtttct gttggcacia gaggggaatta atgtgttcac agacctgtaa 300
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atatatttctt tt 372
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<210> 34464  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F4

<400> 34464

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cgtcgccctcg gcagactccg agagggcggc cgtggacctg acgaatttga cgacggaggg 180
tgacgacggc aggagcaggg acgttggtgc gtcggcgctca ggtgcagggg ccacactgcg 240
gttcctggca gcggcagctc agacggagcc gctgcatact tcgtcgtcgc atggccatgg 300
gcgcggccac cactgctctc cgttggaact ggagctgggc atgtccctgc ccggcccatc 360
cgtcggaacg tgatggagat gagtcgaggg cgatgccgtg cgtgactgct gtctccctca 420
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<210> 34465  
 <211> 392  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F9

<400> 34465

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gggtggtgagg aagggagcct ccatgaagct ctgctatggg ctagecgccgg gcagaataacc 120
ctttcaaggc tgcactacgg tgaccagatt gccaccgtca gcctatcatc ggggtcaagtt 180
tacaggttca gcatggattt gaagtgcctg aagacttggc ccctgtgata gcacacattt 240
gctgaaatga aagataccat tgattgtgca caaatcatg aaaacttctg gctggcaaga 300
aaataatcga tttcatacat caatcataac acgtatcata tttcttaaaa cacaagcatg 360
tgcagctcat tcacctttac gaccatatca ac 392
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<210> 34466

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C2

<400> 34466

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cagagcacca acaatggccg ccgcctcctc gtccctgggc ctctgctgc tccctggccgc 120
cgccttggtt ggcattgagc ccaacgccgc caccttcacc atcaccaaca actgcggggtt 180
caccgtgtgg cccgcgccca ccccggtggg cgggggcacg cagctgatac ccggcgggac 240
gtggaccgtc aacgtgccgg ccggcaccaa gctcggccgc gtgtgggggc gtaccggctt 300
gctcttcaac ggcaacagcg ggagct 326
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<210> 34467

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G10

<400> 34467

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aaaggcaagt aaaaataaaa acgtacagta gaacaactaa aaaataacaa actaaaaact 120  
 taccacatct ttatcaatcc actaccaact atactcgtec aactcgcaca ttttcatttc 180  
 ctacttctac catacccacc atctaaacaa acatctacta tctcataaca catactctga 240  
 ctctctaaca acacactatc ttttcatcat ctatacaatc acacttacac ttatcctcta 300  
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<210> 34468  
 <211> 138  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A3

<400> 34468

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 tggcgttccg ttaagcat 138

<210> 34469  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A4

<400> 34469

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 gttgacagag aacgaaggtc cttgcttaaa aggtaaaggc agggccagtg atgcagcatg 180  
 aatcgcggtt ctgacctgga gatcgttgct acatatgtca agagatggga agtacttctg 240  
 catcaagctt gccttgtata tgcttattgc tgtgacaatt agaacgatat ttaccgatat 300  
 tggccattca ctatca 316

<210> 34470  
 <211> 316  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A5

<400> 34470

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ccttctatct tctaaattct attatatata agctctttct cttaaatttt tctactttta 180  
ttccctttta ctttcttata ctttcttttt tattcctgtc tttcttaata cttttttattc 240  
tttggttttt tcatatccct tttttttaaa aaactttttt tatcccaaaa tatttccctt 300  
tatttaaatt tccttt 316

<210> 34471

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A6

<400> 34471

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gagtggccag agcatgagca cgagcgcccc cagctacact cccacagctg cagcccgtcg 180  
tcgcgtcgtc accacgccac agcggacact gaccctgtca ccaaattgtt gtgacataca 240  
cgagcgttac tgctatctcc aaaacgtcaa gtagttagaa tgtagattat ccattcttaa 300  
tatgatattc tacaatctac atttctgtaa acaatgatta ttttaccttt tcttgttgat 360  
tgtgagcata actgtagagc tcaaagagct tctctggatc tgatcatgtg gttatggttt 420  
acatttgac accatgtggg 440

<210> 34472

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A7

<400> 34472

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 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180  
 gggcaggtga gctccgccat cgcgccctgc ctctcctacg cccgcggcac ggggtccggc 240  
 ccctccgcgt cctgctgtag cggcgtcagg aacctcaaga gcgccgccag caccgccgcc 300  
 gacaggcgcg ccgcctgcaa ctgcctcaag aacgcgcgcca ggggcgtcag cggcctcaac 360  
 gccggcaacg ccgtcagcat cccctccaag tgcggcgctca gcacccccta caccatcagc 420  
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<210> 34473

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A8

<400> 34473

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 tgtgttccgt ctcttcgccg atggcttcgg ccaagttcgg tgctgcccag caggtggaga 180  
 accgaggcgc gctgtccaaa aggtcacgta acgacgtgtc tgtaaggag ggggactgga 240  
 attgtcctca gtgtggtaat gtcaacttca gttttagaaa tgtttgcaac cgtggagcct 300  
 gtggtgcacc ccgtccatca ccgagtcgaa gtccaagatt gatgccagga cctcctgctt 360  
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<210> 34474

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A9

<400> 34474

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aaggagatcc tcaagatcgt caaggagaac ttcgacttca ggcccgggat gatcaccatc 180  
aaccttgacc tcaagaaggg cggcaacagg ttcacatcaaga ccgcccgcata cggtcacttt 240  
ggccgtgacg acgcccgactt tacctgggaa gtggtcaagc ccctaaagaa ggcattcgct 300  
taagaatgat ttgtaaggtc actggacatg atgttcattt tcgtcttgct ctgctgatac 360  
ctgca 365

<210> 34475  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B10

<400> 34475

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gcgagatcga aggacagcat ctcagcgccg tcgacatcgt cggtcactac agcagcgttt 180  
gggctcagtc cgagagcttc cccgagttaa agcctgagga ggttgctggt atcataaagg 240  
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tggtgatcca aggtgaacct ggagttgtca tccgaggaaa gaatggcact gggggcatta 360  
ctatcaagaa aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccaa 420  
ggcaatgcat catggtggt 439

<210> 34476  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B2

<400> 34476

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gttccgtctt ttcgaccatg gcttctgcca agatcagtgc tgcccagcaa gtggagaacc 180  
gaagcgcgct ttccaaaagg tcacgtaacc acctttctgt aatggaaggg gactggaaat 240

tgctcaatg tggtaatgtc aacttcaatt ttagaaatgt ttgaaaccgt ggaacctgtt 300  
gtgcac 306

<210> 34477  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B3

<400> 34477

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ca 62

<210> 34478  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B4

<400> 34478

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tggcggggga tttctcgcg agcgggtcctg cacctttatc gccggcggt cctgcgcgt 120  
tgctgtgttc cgtctcttcg ccgatggctt cgccaagat ctgtgctgcc cagcagggtg 180  
agaaccgagg cgcgctgtcc aaaagggcac gtaacgacgt gtctgtaagg gagggggact 240  
ggaattgtcc tcagtgtggt aatgtcaact tcagttttat gaaatgtttg caaccgtgga 300  
agccttgtgt gcaccccgtc catcaccgag tccaagtcca ataatgatgc caggaccttc 360  
tgcttctgga tatgaccggg cacctttatt tta 393

<210> 34479  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B5

<400> 34479

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tctgctgga gccgtgctg ctctgccagc agtacaggga gctcaggga cgcggttgg 180  
accccgctt cggtgggac gtcaacgccc agaaggccgg cgccggcatg atgtaccgc 240  
cgcgggcgca ggggatgggc cgctaattac gctacgacca gctccatcg taaactgata 300  
tgtgttgtgt tgtgttgtgt cagccagatc atcggtaaac tgatatgtga tataatgtca 360  
gggaccggca tgcccatgtg tttcaagata tttcacgttc gagtccttcc tgcagctca 420  
c 421

<210> 34480  
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<212> DNA  
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<223> Clone ID: LIB3068-005-Q1-K1-B6

<400> 34480

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gctgagccac cgcgccgaca gcgggtgcca gggcgcttcc tacacctacg acgccttcat 180  
cgaggccgcc agcaagttcc ccggcttcgg caccaccggc gacgagcaga cgcgcacgcg 240  
ggagctcgtc gccttcttcg ggcagacgtc ccacgaaacc accggtggat gggcgactgc 300  
tgcggtatga ccgtttgact ggggatactg acggctgaag gaacagaaac agacggacct 360  
accctactat ggacgaggac ccatacagct aactgatgag gacaactaca ggctcgccgg 420  
gcaagcgctg aacctgaacc tgggtggcga cccggacct 459

<210> 34481  
<211> 133  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B7

<400> 34481

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ggcggggcac ttttttagact gcgccgtgcg cccgagcccg gaacgctctc agatcgtgga 120

gctgctgact ttt

133

<210> 34482  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B8

<400> 34482

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cagggcacca acaatggccg tcgcctactc gtcctcggtc cttctgctgc tcttgcccg 120  
cgacttggtt ggcatgagcg ccaacgccga caccttcacc atcaccaaca actgcggggtt 180  
cacctgtgtg cccgcgccca ccccggtggg cgggggcacg cagctgaacc cgggcgggac 240  
gtggaccgtc aacgtgcccg ccggca 266

<210> 34483  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B9

<400> 34483

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cacaaggagg ctgggtgccg ggccccctat ggacccatcc tctgcattaa taactgttgc 180  
ttcttctgca gcgcggcgac catgaacatg tgctctaagt gccacaagga gatgattacg 240  
aagcatgatc aggccaagct ggctgccttc tgtatcgaca gcatcgtgaa cggcaaccac 300  
gccgtcatgg agcccgttgg tgcttgacgc aaca 334

<210> 34484  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C10

<400> 34484



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ctttgactag cacctggaaa gctccactta tactacagct ttcaggtgat cagacagcgt 300  
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<210> 34485  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C12

<400> 34485  
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tttttctacc cacataattc ataacataac ctaaaaaata ttattatttc acttaccccc 180  
ataaactccc acacatccta cacctcataa cctacttcac aaactatcac tataatccct 240  
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<210> 34486  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A12

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gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180  
ggctgctcac gaacataccc aaatgcaatt gtatgccgag caagtttctc agcttatgac 240  
tactgagaag aacctgcggt tgcaactagc ttcggatgga gaaagatttc agcactttca 300

ggatgccctg tcaaaaagca atgaagtctt tgaaacttac aagcaggaga tggaaaaaat 360  
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ctc 423

<210> 34487  
<211> 333  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-004-Q1-K1-B7

<400> 34487

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tgatcctccg tctgatggag gaccggaca agcgcgacca ggttcggcgg gagcatgtct 180  
acaagatgaa ggagcgggtgc gagcgacta aggcggcgtg gaggctccct ctgcgccct 240  
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aggccgccgg ccgtcgggac ccctacgacg acc 333

<210> 34488  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-B9

<400> 34488

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gatctctcct ccattcacaca atccattcta tcttccatca cccatcctac aaacatccca 120  
actcaaattt cacctcac 138

<210> 34489  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C11

<400> 34489

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ctactgccga acgtctggtg acaagattgt ccggtgcttat gctaaggatc actatttcga 120  
tgttgtcaca aatgttgtgg gtttggtctg tgctgtcctt ggtgatagat tctactggtg 180  
gattgaccca attggtgcaa ttgttcttgc agtgtacacg atttcaactg gtctggaaca 240  
gtgtgggaaa atgcagtatc gc 262

<210> 34490  
<211> 301  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-004-Q1-K1-C12

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ctggtctcaa tccagccgct cgctgtgccc caactgcctt ttcttcagcc aattctggta 180  
gtgcatcagc acctctact actgcygcaa ctggtgceaa aaccagtgc actgcagctt 240  
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c 301

<210> 34491  
<211> 120  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-004-Q1-K1-C7

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<210> 34492  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C8

<400> 34492

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aaaataaaaa agaaagaagg gcaaaatata taaaaaaaaa aaaaattaaa taaaaataca 120  
tacaaaataa taaatatttt attatgttac ctaaattaaa tttttttaa ac tcttttttac 180  
aacataatta aataaaaaaaaa cttttgtgtt cccaatttta atctctttta aaaaaatacc 240  
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<210> 34493

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C9

<400> 34493

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taattagatg gattgtgtgt aaaagatgag gaccgatgtg aactgaagta gtttctttgt 120  
cacctcttcg ggtgctgcag caatccaagt ttttggttgt tattgatgac cca 173

<210> 34494

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-D5

<400> 34494

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cgagatcacc accaangcga gcgtggacta cgaggagatc gtgcgcgaca cctgccgcga 120  
gatcgggttc acctccgacg acgtggggct cgacgccgac cgctgcaagg tgctggtgaa 180  
ca 182

<210> 34495

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D7

<400> 34495

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ctgcgcctgc gccttcgccg tgagcttcta cgtgccgggc aagaaccagg cggaccgcgc 120

gccggccgag ggccctgcgcg tggaccgctg ggccgggggc aggtacgcgg ccgtgcgcgc 180

cttcgggggc ttctgtggcg acgccgacgt cggggagcag gcggcgcgcc tcgaggccag 240

cctccagggc acccggtggg ccgccgccgt caacgacgcg cgcagggccg acccggcctt 300

gccctacacc gtgcgcgagt acaac 325

<210> 34496

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D8

<400> 34496

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cggggggact ctcttatcgg ggacacaggg taccaggatt gcttctgagg gtctgaagca 120

cagagtcttt gaggtttgcc tagctgatct tcagggcgac gaggatcaag cttacaggaa 180

aatcaggctc cgtgctgaag atgtgcaggg caggaatgtg ctcacaaact tttggggcat 240

gaattttacc actgataaac tcagatccct agtgaagaag tggcagacat taatcgaagc 300

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caagaggcgc ccaaac 376

<210> 34497

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D9

<400> 34497

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gcctccctcg ccaaatgagg tcccgccctt ttccgacatt cacagggggg acaggaaatc 120  
agcggccatg gcctcgattc cggcgacgac ctccgccgtc atcttatccg tcctcttctg 180  
tgccgcgggt ggcaccgccg tcgacaacga cctccccgac tacgtcatcc agggccgcgt 240  
ctactgcgac acctgccgcg cggggttcgt gaccaatgtc accgagtaca tcgcgggcgc 300  
caaggtgagg ctggagtgcg agcacttcgg caccggcaag ctcgagcgct ccatcgacgg 360  
ggtgaccgac gcgaacggca cgtacacgat cgagct 396

<210> 34498  
<211> 165  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-E1

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aacagtgatg agcaggagca gatcatgatt gcccgaaacc tcctcaacta tcgcttgaag 120  
gagaagatgg cgatggccaa ttatcctcat gtttcaccat tccct 165

<210> 34499  
<211> 257  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-004-Q1-K1-E12

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ttcaaccacac tttcacaaac tattgagcac caacattttt gatggcaata tatacacact 180  
tgtatttaca acttcaacgc ttgaatctga agaatacaca ctcaaaacca ccattcaatt 240  
taacaaataa ccaccgc 257

<210> 34500  
<211> 192  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-004-Q1-K1-E2

<400> 34500

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 ttacactag gagcgaggct ctctagaggc ctgtaaactg tgatgtgaaa taccgctttg 120  
 taatttcaga aataatctat tacctttgat gcgtccagcc actgaacgag acatatacat 180  
 tgtatgttac tt 192

<210> 34501  
 <211> 158  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-004-Q1-K1-E6

<400> 34501

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 cacttgctca ctgggggtctt gatttttnatt ttgaaaagtt ctgttcaatc tccttgctcaa 120  
 atttgaatgt gtatgcgtgc ttggtctgtg gaaaatat 158

<210> 34502  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-004-Q1-K1-E7

<400> 34502

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 gtcgccgcgg cgactgcgac gatnatngac tgcgctggag gccgagaccc cgtggaggac 120  
 ttctcctcgc gcggcgccgg cgccggctac gacggagatc tcgtcgccgt cttctgcgac 180  
 ggcggggccg gcgacggagg acttgggatt gaaggtatcc atggagatgc ttgtggattt 240  
 gagcaatcta atttggggaa aaagggtaga gatgaaccat gttcatctgg cccaacatcc 300  
 aaagcttgtc gtgaaaaaat gaagaagga 329

<210> 34503  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-B3

<400> 34503

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atTTTTTggTg ctggtatggc tttatccatt ggcgcaaaat ttgtgccttt gaggaagccg 120  
aagaagttgc caggcgaggt gatctc 146

<210> 34504  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-E9

<400> 34504

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cgggagcaga aacagaagag gcagccatgg cCGtgatgga gaagctcaag atcttcgttg 120  
tgaaggagcc tgTtgTcgca gcttctcgtc tcatcgccgg attcgggtctc tttcttccag 180  
cagttgtccg gccaatcctg gattcatggg agaccgcaga aaaagtTcct ccaccacctc 240  
taaAtgatgt ggttgcgggT gTcaccggca agaaaaagta gtgaacttgc attggTtttct 300  
catgtcgatg ctgtcccaca ttttcttccc catgtttt 338

<210> 34505  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-F3

<400> 34505

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catgatcaag ggcgactggt tttctattga taactctctc atgatcgtaC tcttcttata 120  
tgggatgacg gcaatgatta tgc 143



<210> 34506  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-004-Q1-K1-F9  
  
 <400> 34506  
  
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 aattttaaaaa aaaaaaaaaa caaacatttc caataaataa aacaatataa aatatctctt 120  
 aaaaataaaa aaaatataact ttctctttcc ccttctataa ttccctattt tcttttcccc 180  
 tttttttccc cctctctatc tcctcttctt tccctctttc tcta 224

<210> 34507  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-004-Q1-K1-G9  
  
 <400> 34507  
  
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 ctctttctggt tgagctcatt ggaggacacc ttcggtatct ttttaacaaat tttccccccc 120  
 aatcaaaactc cccaccttac aatttcttct ctctgatct tcccatctag tcctttcctt 180  
 ttatcctaaa tgattttctt taccctcatt tctacccttt ttttatttta aatctctttt 240  
 ataatatattt tttccacttt cttccttatt tttcctatta attctacaat cttttatctc 300  
 atattcaata ttctattttc tttcttcttt cctttctttt ttttttttct tctttt 356

<210> 34508  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-004-Q1-K1-H9  
  
 <400> 34508  
  
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 aactggtgtg ctcaagggtg gcgtgtgctg tgaggactgt gttggagctg tcaagcgggt 120

cctgggcaag atggaaggcg ttgagtccta cgacgtagac atcatggaac agaaggtcac 180  
 cgtgaaaggc aatgtgacac ctgacgccgt cctgcaaact gtttccaaga ctggcaagaa 240  
 gacttcgttc tgggaggctg aagccgtgac aagtgaatcc tccacacctt ccggtgccac 300  
 cgcttgacaa gttccatgat cacgaagttc cccgc 335

<210> 34509

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A1

<400> 34509

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 cgctgttgcc caccctccta tttctccatt cgttgtccg ctagttacag tggtcgcctc 120  
 ttaggtgtta cagtaaaaaa aatattattg gtggtgatat ggttatttat tgattcgttg 180  
 gggtaattaa taagaacct caagcttggg gtcttcacgg agagggtgaa tcgatgcggt 240  
 gaaaacggca cgtgaagggt aataagagat cgatcgagcg gttaaagaga acaaggagac 300  
 agagacaggt ggcagatgac gcagtggatg tttttcactg ttactgcggt aatttttgtg 360  
 catgcggcta ctactgtaca gtggggtagt ttggtacaag agaggagtaa aaaaatggaa 420  
 agagaggact 430

<210> 34510

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-005-Q1-K1-A11

<400> 34510

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 ccaatgtctt ctgcncctcg gatcggcnct cggcgaggcc cgggcccttg gagcccaaaa 180  
 ggaaggggcg gtgctccga cttacgactc cacggaagta tgtcaaataa cacttcaaaa 240  
 gtagttggta tttcactttg tcgcccggaa ggctctccac ttatctctac ancctctcaa 300

agtcatatcc acnacaagtc ggactatgag tcaagcctca acaaggggtgc ttctttcctc 360  
cgctgattcc cgccaag 377

<210> 34511  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F5

<400> 34511

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gacagactgg agtatTTTTG ttagctcaaa aagactgggtt tctggtgaca catttatttt 180  
cttgagtgtg acatcattac atgttaaagt tgtcttgtag gttacattta tttcctggct 240  
ttactaaatt tttggatcaa ccttctaact gttcttcata taattgatgt gagaacaaat 300  
agctg 305

<210> 34512  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F6

<400> 34512

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ggaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaggggc gcccttttta aaggttccaa ttttctacc ccttcctttc 180  
aatctaatac cttttttttt attgccccca aatttaattc ctttgccctt ttttttaaaa 240  
cttttaacct gaaaaacctt ttcctttccc caactaatc ccttttaata aaatccccct 300  
ttccccattt ggcttattat cctaaaagc 329

<210> 34513  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F7

<400> 34513

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tgtaaggagg tgtgttgaac agatcaacaa ggcgagcata ggctaactca gtgaggagga 180  
actgaaagag agacagaaca tagccatgca agaccctgag atccagaaca tactgactga 240  
tccgatcatg catcaagttt tgactgatct gcatgagaac ccttgggctg tgcaggcgca 300  
ccttaataac cccgtagtga tgcattat 328

<210> 34514

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-F8

<400> 34514

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gatacctgat cgtgcaatat cnngttcgtc tgactttggg tatagtgggc gaaaggaaact 180  
aatcgaatcc atctagtatg ctggttccct tccgaagttt tctcctcagg gatagtctgg 240  
agtcctaca ctgagttcta ttcgggtata agcccaatga tttagaggca ttcgggggtgc 300  
gcaaacgctc cttcgacctt atttcttcaa actttaaaat a 341

<210> 34515

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G11

<400> 34515

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<210> 34516  
 <211> 74  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-G3  
  
 <400> 34516  
  
 cccacgcgtc cgcccacgcg tccgcccacg cgtccgtcca cgcgtccgcc cacgcgtccg 60  
 ggtctagatc gcga 74

<210> 34517  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-G6  
  
 <400> 34517  
  
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 cgcttctaaa gagattgggg acaagaaagg tggactatc gaaggggatc atgtcaaagg 120  
 aatcagaagg agcagcaggg tggaatctaa cgacgagatg aagattgatg ataaggctac 180  
 aacgagagca atgggtaagg atgcgtttat taacaaaggt atatcttcta accctttttc 240  
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<210> 34518  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-G8  
  
 <400> 34518  
  
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 cctgcaatca tgtttgccac ttctactcta gagattgcat tggcaaacct tctctaccac 180  
 ttcgactggg ctcttccgga tggagtgagc ccaaagatgg tggaaatgtc tgagcaatac 240

gggatgggtg tcaccaaaaa gttagacctg catttgagag ccatcccata tgtatactct 300  
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<210> 34519  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-003-Q1-K1-G9  
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 ctggttcctc tccagtagat gacaaagcta gagaatcttc aggatcacca gtgaaggata 180  
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 tcccacttga agcacctgtg acaagcagca gagcagagcc tgtggcatgt gatggcagtg 300  
 acatgaaaga tgatattcca ctagacgctg aaagcaacgg gaaccttgaa gagcgatgaa 360  
 actgcttcct tttggaacat ggatgcatta catcaagtat tgggttaa 407

<210> 34520  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-003-Q1-K1-H1  
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 agacatccat tttaggggat ccattttta 149

<210> 34521  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-003-Q1-K1-H11

<400> 34521

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tgaggctcat ggatatgtcc ggaaggaggt ttctcctcct cgcaacgatc ccagtcctaa 180

tagtcgcgct actcgctctg gtgggtgtcca acatcggtga cgtgggggac gtggcgcacg 240

cggcgctctc caaggccagc gtcatagtct acttctgctt cttcgtcatg gtgttcgggc 300

ccgtcccca cactctctgc gcagagatc 329

<210> 34522

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H12

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gtatagcgcg tggatcagct cctgtcctt ccgagtcgg atcgccctca acctcaaagg 180

tgtggattat gagtacaggg ctgtgacaag gaacgatcta gattacgaaa agatcaatcc 240

aatcaagtat gttccagcat tggttgatgg ggattttgtt gtttctgact ccctggcaat 300

catattgtat cttgaagata aata 324

<210> 34523

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-H3

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ccctagtcaa cgacgggttg gcttccgaca gccagctcat cgtcgacgtt gccatcaagc 180

agagcgcaga ggtcttccag gggataagct cgctcgtcga cgtcgggtgg ggcatcggtg 240

cggcggccca agccatctca aaggcgttcc cgcacgtcaa gtgtagcgtg ctggaccttg 300  
cccacgtcgt tgcgaaggct ccaactcaca cggacgtgca atttatcgct ggcgacatng 360  
ttgagagcat 370

<210> 34524  
<211> 400  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-H5  
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ggtgtagtcg tactcatgtt gcaggtgatg tcctcatcaa taaccttggg aaagccaagc 180  
cccaatccac ttttattttc ttaattcttt ttctttttcg cttacgctta cccttacaca 240  
gatgacttct cagcagtcct cggaaggagg gaacgcacat tcccacacgg acggacttgc 300  
gcaagagggg tttccctgca ttntgtggga ggtgctgcag ggagccgggt atctggtgca 360  
gttggtcgag gagcaccggg taccocgctg taggggtgag 400

<210> 34525  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-H7  
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ctccaaagct tcagtttcgt ccacctcacg ttcaacctg gcggtagaac gcactctggc 180  
catttaatta tgaacttgtg gaactttaat actttcttcc tccgaagcaa gtttcaaact 240  
ggagcttctt tcgattccga cagacaagct tctgcgactg ttaaaaattt tggcagcaaa 300  
acagtgcaaa tagcaatgaa tactgtggta acttcacacc tacttgtctg tttatatagt 360



gctgtatgta agaaagctaa acgccaggat tttta

395

<210> 34526

<211> 406

<212> DNA

<213> Zea mays

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<400> 34526

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gtggcctaaa gcatgacccg aaaaaccagg agttacttga tgggtgtaagg aggtgtgttg 120

aacagatcaa caaggcgagc agaggcgaac tcagtgaaga ggaactgaaa gagagacaga 180

acaaagccat gcaagaccct gagatccaga acatcctgac tgatccgac atgcagcagg 240

ttttgacgga tctgcaggag aaccctcggg ctgcgcaggc gcacctcaag aaccccgagg 300

tgatgcagaa gatccagaag ctgcgcaggc caaggatagt tcagatgaag tagacggggg 360

cttgaatgt tccgggttca gatcttgga cctgtgcctg gaaatg 406

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<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H8

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cgcaccacgg caggatgacg acgctgagga acctcaagat caagacgtcg acgtgcaaga 120

ggatcgtgaa ggagctgcgc tcgtacgaga aggaggtgga gaaggaggcg gccaaagaccg 180

ccgacatgaa ggagaagggc gctgatccct acgacctcaa acagcaggag aatgttttgg 240

ctgagtcaag gatgatggtc ccagactgcc acaaacgact tgaaactgca ctggctgact 300

tgaaagcaac actggctgaa ctgaaggagt caaatgagc 339

<210> 34528

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-004-Q1-K1-A1

<400> 34528

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gcggtgccac tcaggatacg atccctttta ttgtaaaaga gggatccctt ctttccattg 120  
cattcttgca atccgtttct tcttgactat gtttcttctt gactatgtaa cgataataac 180  
atgagaaaat tatctgaatg acattatatt ttttct 216

<210> 34529

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-A9

<400> 34529

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ctggcatcta tcgtagccgc cgcgctccgg cgggcgtggc cagcattcag catggacgat 120  
gtcgtcggca gccttggcgc cgcgcggccg gtccacgtgc tcatggcggg catcctggct 180  
gccggcgtgg cgaagctgag gcgcctgcgc cggccgcggg acgtgtacct ggtggagtac 240  
ggctgcttcc gaccgcggcc gtgcttccgg gcgcggttcg ccacgtgcct ggagcacgtg 300  
cacc 304

<210> 34530

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-B10

<400> 34530

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cctgcagatc ccaaattcgg tggattatta aaaggagggc gaccgaantc ttctatngnt 120  
ttcatcatgg acttcgcgga gaatctgatc ctccgtctga tggaagacct ggacaagcgc 180  
gaccatgttc tgcgggagca tgtctacaag atgaaggagc ggtgcgagcg cactaaggcg 240

gcgtggagcc ttcctctgcg cccctacggc t 271

<210> 34531

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-B2

<400> 34531

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accgaagaag cgggagagat ggctcgtacc aagcagactg ctcgcaagtc cacgggaggg 120

aaggctccca ggaagcagct tgccaccaag gctgcccgta agtctgcccc caccactggg 180

ggagtgaaga agcctc 196

<210> 34532

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C1

<400> 34532

taaaataaaa aaaaataaaa aataaaaaaa aaatatttaa aattaaaata aaaaaaata 60

aaaa 64

<210> 34533

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C10

<400> 34533

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acttgagcaa atgtccgcga caaagggttac ctttccttta gttgggacca atacctgctg 120

cagtcaccct ctgtaccgtg agtctgagct tatccaggag aactaccttg gtgtgagaaa 180

tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240

ccaattcacc cctctgggcc gaatgcttta caaggcacca tctgatggga aatgtgggga 300

gcatgagctc gactacctgc tgttcacgtc

330

<210> 34534  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C11

<400> 34534

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ttggccctgg ctgtacttag cctcaatgtc tggaggagcg ggaagtccag cttaccgttc 180  
atactggcgc aagcaggcat tgccgctgcg gtagcatgga agcacggcca ggcgtacacc 240  
actacgagga agctgcttcc gtggggcttc tacgtcgcgc taagtgccgc aatgatctgc 300  
ttctactcct acgttctt 318

<210> 34535  
<211> 297  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-C3

<400> 34535

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ggatctggcn tctgacacc agtctnntcg tcttcttcta cgacgaccgt nncaagagcc 120  
ggcgcggaag ggggtggtgtc atcaggtntt ctgcgcaccc gtcttgggac aactgctgcg 180  
actnctcggc ttaccacagt tatcgacgcc ntngagtccg tacaagggac tcnttgccat 240  
ggcttgctng ctgcaaggaa tctcngnntc gctgggtggc ccnaacggc aagggac 297

<210> 34536  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C6

<400> 34536

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ttgggtccaat cttttaacaa ctatgggcct atgcttgctc taatcaactt atttataggc 180

ttatattttc ttatgtttca taatatttcc ttgtattcat atttttttga ccttttatat 240

ttatttttcc aattttttat tttatttttt gtttctattt ttattttctt tttttacctt 300

tatatctttt tttttttttt attttttttt ttttatatta tttcttttta tatttttatt 360

ttatttttcc tttttatttt ttttatttta ttttttattt tacattttta tttttattct 420

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<210> 34537

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C8

<400> 34537

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ggatataaaa tatccaaaac taacattcac ttacatacaa caacataatc ttttctataa 120

actcacctaa attcaattaa cttttccaac tactaaacaa catctatact gtc 173

<210> 34538

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-D11

<400> 34538

tgacaacca cgccacgacg acacaacaaa gcaccgcagc tactaaacct atggccgggg 60

tcgtggtggt gttcgacttc gacaagacga tcatcgacgt cgacagcgac aactgggtcg 120

tggacagcct cggtttcacc gagccgttcg agcgcctact gcccaccatg ccttgaaca 180

cgctcatgga caccatgatg ggggagctgc acgcgcacgg caggacgctg gacgacgtcg 240

ccgaggcgct ccgtgcggcg cccgtcgtcg cgggcgtccc cggcgtcatc aaggccgtct 300

acgcgctcgg ctgcgacctg cgcg

324

<210> 34539  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-D3

<400> 34539

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gtgctcgccg gggctgccgg cgccggcgcg cagcagggcg tgtggagcat catcaccg 120  
cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac 180  
acctacgacg ccttcatcga ggccgccagc aagttccccg gcttcggcac caccggcgac 240  
gagcagacgc gcaggcggga gctcgccgnc ttcttcggcc agacgtccca cgaaaccacc 300  
ggtggatggg cgactgctcc ggatggaccg tttgcctggg gatactgccg ggtgaaggga 360  
cagatacaga cggacccact ctactatgga cgaggaccca 400

<210> 34540  
<211> 381  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-D4

<400> 34540

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ttcgtgttga gagctacatc aagcccgtcc ctgctattct ggagatccca tccaaagacc 120  
atccatatga tccaacgcac gactcgggtgc tctctcgagc gaaatatctg ttctctgcag 180  
aatcggttgc gtctgatatg ctatgaatgc atccttgctg agcagtaccc ttcgatgcat 240  
ctattttgtt atggtattga aaagaatatg gcacgtacca ttgggtgcga tcgagccagc 300  
atgaacaata ttgagcttgc taacaataat tggctgaact aaaccaacac cctctttttc 360  
ataaatgggt ctaaatgata t 381

<210> 34541

<211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-D6  
  
 <400> 34541  
  
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 gagctacaac aagcccgctc ctgctattct ggagatccca tccaaggacc atccatatga 120  
 tccagcgcac gactcgggtgc tctctcgagt gaaatatctg ttctctgcag aatcgggtggc 180  
 gtctgatagg cgatgaaggc atccttgctg agcagtaccc ttcgatgcat ctaatttggtt 240  
 atggtattga aaagaagatg gcacgtacca ttgggtgcca gcgagccagc atgaacaata 300  
 atgagcttgc aaacaataat tgggtgaacc taaccaacac cttttttttc ataaatggtt 360  
 ccaaatagata ttttggtgcc ttgggggt 387

<210> 34542  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-D8  
  
 <400> 34542  
  
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 gggcaggctg gccaaagccc gctcaacga caagctccgc cactcgggca tcacgcacat 120  
 cgagttcacc aggggtgccgt gcgagttccc tggcctcaag atcgggttcc acgtggagga 180  
 gtactcgagc cccgtctact tcgcggtgct ggtggagtac gaggactgcg acggcgacgt 240  
 ggtgcatgtg gacctgatgg agtccaagac ggcgcgcggg ccgacgacgg agcgctgggc 300  
 gccgatgcgc gagtccctgag gctccgaatg gcgcatgg 338

<210> 34543  
 <211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-D9  
  
 <400> 34543

tcgcccacgc gttegccac gcgtccgcc acgcgtccgc ccacgcgtcc gccacgcgt 60  
tcgcccaggc gtccgcggac gcgtggg 87

<210> 34544  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E1

<400> 34544

ctcgcggtgg tgetcctcct cctcctccct ctgctcccgg ggccggcgct ctctgttcg 60  
gcctccggct gctgctggtg ccagggccgg ggggcggcgt ggaggtggcg ctcatggggc 120  
tcgccgggga cgggtcggcg gacaccgtca acctcagtaa tagtgaaaat ggtcggttca 180  
gatatggagt tgcaagttct cccgggaaaa gagcatcgat ggaggacttc tatgaggcaa 240  
ggatagacga cgttgacgga gagaaagttg gaatgtttgg tgtgtatgat ggtcatggag 300  
gagtcatagc agctgagtac gttaagcagc atcttttcag caatttaatc aaaca 355

<210> 34545  
<211> 192  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-E4

<400> 34545

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cgtgctcgty cgactgcatt tcattcaaatt nnttctgccc tagtnannac ttgtcgatgg 120  
nttaggatag nngggcctac tcatgnnnngt ggtgaccggg gttgacgtnn gagaattatg 180  
ggtnnntcga tt 192

<210> 34546  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E6

<400> 34546



gcgcctctac attttcttctc tctctgctcc tccgcctccg cctgatccat ccaagacagg 60  
gatcgccatg tcggactcgg aggagcacca cttogaatcg aaggccgacg ctggggcgtc 120  
caagacctac ccgcagcagg ctggcacctg ccgtaagaac ggcttcatcg tcatcaagaa 180  
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240  
atgccacttt gtcgccatag acatattcaa tgggaaaaag cttgaagata ttgttccttc 300  
atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360  
tgaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggaat gatcttaaga 420  
cttcccaac 429

<210> 34547  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-E7  
<400> 34547

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atccattatt ggtatgttta tgtcatatag taaacggatc aaagggatat actgtggcat 120  
tagagaatat tcatcttgac aagaaattat ctatatgtaa agatatctct gacaacggct 180  
atagctcatt tcggtagagc aactaattta cacgtgcgcc aatgcttttt aacggaactt 240  
tttatgcaat gaacataatt gaccttgaag cataatcaat gtcttacttc atggattcga 300  
aagagtcgaa caacagttac ctgacaatga caaacagctg ttttagatct attcaagtgc 360  
caaatatgga gcttactcat atataacttc cattgatttc gccttctttg at 412

<210> 34548  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-B8  
<400> 34548

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tttcaagatc tcagaggtaa agactatttt ccgacaagag cgttggaaaa tattctcaag 120

acgaaagggga taattgatga caagaagaaa gatgacgacg atgacgatga ataaagcgag 180  
gctaagacta ggagggttag gtcttcaact gctcaagact ctgactcaga ctgaacctga 240  
gatgaggatc gatgactcac cgtttctgca ctttggattt tgtcagtatg attgttctgt 300  
gttgcgctgt actgtactgt aattgattt 329

<210> 34549  
<211> 341  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-003-Q1-K1-E9  
<400> 34549

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tgggtgtccgc gctgctcctt ctacgctca ccgcggagct ctattacatc ttcgtgcaca 180  
agcgcgggct gcggcgacgc gcagccgcca tctccgacgc gtcgtcgtcc ccgtcctcgt 240  
cctcccgcga gctgctccag ctcttctgct tcaagaagcc gccggcgctc gcgtncacct 300  
acgccgtccc ggaggccgcg acgacgccga cgccgacgac g 341

<210> 34550  
<211> 347  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-F1  
<400> 34550

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cgggtgcccac ggtgttaaca ggagagctcg tgactgcttg gacttctctg tcccagcatc 180  
tctacgtgta cgcggtgctg gtgttggagg cgatggccac gttcgtcggc caggtctccg 240  
tgctctccct catcgcgctt ttcggtgcag caaccacagc catggtgacg actgctagga 300  
aggcggagac gctgctgctt gtgtacctga tatttaccac gccctt 347

<210> 34551  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-003-Q1-K1-F11  
  
 <400> 34551  
  
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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180  
 acctaaggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240  
 ggcttcgggt tccgcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 300  
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggcccagtc ccgcggcggg 360  
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<210> 34552  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-002-Q1-K1-G8  
  
 <400> 34552  
  
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 ggacgcgaac aggcgccaga gtgggatcca gcagttgctg gctgcggagc aggaggctca 180  
 gcaaattgtg aatgccgcta gagctgcaa gtcagcgagg ctcaagcaag caaaagagga 240  
 ggctgagcgg gaaatagccg aataccgtgc ccagatggag gctgagtttc agag 294

<210> 34553  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-002-Q1-K1-H10  
  
 <400> 34553

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 atcagaagtt tccgcaagga agaccagttc gtgtcgacta acagccgtct aacagatgcc 120  
 tactccccgc ccaagttcta caacgccgga gcgagggagt ggctttgctt tcgcctggac 180  
 ttgctgccct ctcttgcggt cgccttctct ctgatctttc tgatcaacct accgaccggt 240  
 ctcatcgatc caggttgtct ggagcatgtg cactttggag aacaagatca tatcagtaga 300  
 gagaatccta cagtacatgg gcgttcctgc agagcccccg cttgtcatgc cagaaaaaca 360  
 gttggctcag agctggccat cgaatggaga aatccagctt cagaatctcc atgtgaaata 420  
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<210> 34554

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-H5

<400> 34554

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 cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga 180  
 ggtctatgac tgcaacaaca tggaggagca ggagctgcct ggaggcgggc tcctcgtgta 240  
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 ctttgacggc gagaacgtgg agagtgtcc tcctcctatg aagaaggact acaaactggc 360  
 taatcttcta tgctgggagg aggaagcgga tgccatggag gagaaggcgg gagtgttga 420  
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<210> 34555

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-H7

<400> 34555

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ccaatcccc ttgtcctgca ggctgtcatt gaccaccttg ttctttggcg ttaataacca 180  
gaaagcagga aaccaaatag tgtcgtcatc aacttcttcg atgaggatga acattcgcag 240  
ccctacttca agcctcccc tcttgacaac cccatttgca ctcttctgct gtctgaaacc 300  
acgatggcat ttggcaggtc acttgtcact gacagcaacg gtaactacaa aggacctctc 360  
acactttcac taaagcaagg gtccttacta gtgatgcgtg ggaacagtgc cgacatggcg 420  
cga 423

<210> 34556  
<211> 399  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-002-Q1-K1-H8  
<400> 34556

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aggatgctaa ttgtcacaca gaaccaatcc cccttgtcct gcaggctgtc attgaccacc 180  
ttgttctttg gcgtttaata ccagaaagca ggaaacaaa tagtgtcgtc atcaacttct 240  
tcgatgagga tgaacattcg cagccctact tcaagccttc ccatcttgac aacccattt 300  
gcactcttct gctgtctgaa accacgatgg catttggcag gtcacttgtc actgacagca 360  
acggtaacta caaaggacct ntcacacttt caactaaac 399

<210> 34557  
<211> 206  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-A10  
<400> 34557

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agagaatggt ggtcattttg cttgtgggag ctgggagtc ttaacatgacc gtggtaggga 120  
cagtgatgat gatgacgtcc gttacaggga ctacgacgtg gcagctcttg ctaataactt 180

aagtcacgca tttcttttatg ggatat

206

<210> 34558

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A12

<400> 34558

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acctgggggc ataagacccc ggggtagcct tcaagacggc catcatggac tggatgacgc 120

cgcattcagc caagcccatc taccacgccg tgattaccgt cgtcgggagg ccctacgcc 180

ccgaccgcgc cgcggggagg c 201

<210> 34559

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A2

<400> 34559

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catgtaattt cggacttggtg tttgttcata tggacccggc aaggcaatgt accattttct 180

gttgatattg tatcaggaag cacttaacta c 211

<210> 34560

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A3

<400> 34560

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 gcgctcctag tggcggtcgc ggcggtggcc gcgttcctcg cggtgccggc ctccggcgaag 180  
 tccggggagc tgagcgcgat ggggttgctg gcggcgaagg gcggcagcgg cccgggccccg 240  
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 gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180  
 ggctgctcac gaacataccc aatgcaatt gtatgccgag caagtttctc agcttatgac 240  
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 ggatgccctg tcaaaaaaca atgaaattct ttgaaactta caagcaagag atggaaaaaa 360  
 tgattttggt gataaaa 377

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 <213> Zea mays  
  
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 ttatTTTTTT actTTTTTTT tTTTTTTaca tattTTTTatt tTTTTTatat cTTTTTTTTa 240  
 cctatTTTTT tctttaaaaa actttctttc tttctTTTTT tattTTTTTTa tattTTTTTTT 300  
 tctTTTTTcc tttatttGct tttttctTTa atatcctttt tTTTTTTct tTTTTtatTT 360  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-003-Q1-K1-B1  
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 tctggatcaa tggaatgtgt gtgtactagg cagccggcaa agatgagctg ctgatggtaa 180  
 tgatgatgat aagaggtcac tggtaacctt ctacgtacct tggctcttct gagctggcat 240  
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<210> 34565  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gttgatggca gcatggcaga actcatcaga cctagcctgt atggagcata tcagcatatc 180  
gaattggtct ctccccccac tcttgggtgct gaagtagcga ctttcgatat tgttgggcca 240  
gtttgtgagt ctgcagatct ccttggaaaa gatagggaac ttccaacacc tgatgaggga 300  
gctggactgg ttgttcatga tgcangggcc tactgcatga gcatggtttc acctacaacc 360  
tgaagtgagg ccgccaaaga ctg 383

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<211> 125  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B11

<400> 34566

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aaagcgaatg gataaaatta aaaggagggg gaaaaaaaaa gggcggccaa ataaaagggt 120  
ccaag 125

<210> 34567  
<211> 118  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B2

<400> 34567

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<210> 34568  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B3

<400> 34568

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gaggattcat accagctgat gctgatgtag tgtttcactg gtgtcatgca tgcattgtatc 180  
 gtgctattat aatcaaaaag aaaaaaagaaa taacagtcac ggatgggttg ttgccaataa 240  
 aaaaaaaact a 251

<210> 34569  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-002-Q1-K1-G7  
 <400> 34569

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 ctaaaaccaa tccactaccc cttattctac aacatcttaa cttcaaaacc cctgtctttc 180  
 cccaacttaa tcaccttcca ccccatcccc ctttcaccct cttctcttat tacccaaac 240  
 ccccttacc accccctta ccaacctttc ctcacctta ataccaatc tcccccccc 300  
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<210> 34570  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-003-Q1-K1-B4  
 <400> 34570

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 cgggtggcccc gcagcgctg ttccgcgccg ccgtgatgga ctggcacacc ctggcgccca 180  
 aggtcgctt ccacgtcgtc gccagcgcg agcccgtaga gggcgactgc ggcgttgga 240  
 gcgtcaggca gttcaacttc accttagtca tgccgttcat ct 282

<210> 34571  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B5

<400> 34571

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tgctcttgat ctcatcttag atattgaatc atctcatggt gatatgttca ctgaggaaca 180  
aaatgagctc gtagaatcag ctgcagagat gctttatggg ctgatccatg cacgatacat 240  
tctgaccagt aaagggctgg ctgcaatgct ggagaagtat aggaactatg acttcgggcg 300  
gtgcccgcgt gtttactgct gtggtcaacc atgcctgccg gttggacaat cagatattca 360  
tcgatctagt a 371

<210> 34572

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B6

<400> 34572

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<210> 34573

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-B7

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tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180  
gcaagaacgt gctgatcgac aaagtgcgg tcaaggcccc cggcgacagc cccaacacgg 240  
acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300  
gcgacgactg catctncatc ggccccggga gcaagatgat ccgcatccat ggcgtcaagt 360

gcggggccagg ccacggcatc agcgt

385

<210> 34574

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D2

<400> 34574

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tcctgtggat ggcactgttc ctccagtggc cgctcctact ggttggtaat cagcagccca 180

gcccactgcc caaggcttgg agtaggcgtt gaggcacac tctgagacgt cttgtgcggg 240

attatttcaa agtatgaatg cccgaagtca gacgacatat tttttagat tatttgctat 300

gctttgtgca ctgaatgttt ttagggcttt ttttattgat ccggtgccca tagatctgtt 360

ccttaaaatt gtctttatatt aat 383

<210> 34575

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D4

<400> 34575

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aagaaaaatt agaaaaaatt aaaaaacaaa caaaaaacac aaaaaaacia ataacaaaaa 120

taataaa 127

<210> 34576

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 gctgatgcag aagctgcgcg ccgtgctggg ggaccacgcc ctcagcagcg gcgacgcgga 180  
 gcgggagccc tccgtgttct ccaagatcac caggttcgag gaggagctcc gcgcggtgct 240  
 gccccaggag gtggaggccg cccgcgtggc ggtcgccgag ggcaccgncc ccgtggcgaa 300  
 ccggatcgcg gacagccggt cgttcccgt gtaccgcttc gtgcgcgagg agctcggctg 360  
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<210> 34577

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E1

<400> 34577

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 cccatcagcc ccaccgtcga ctgcaccaag atcaactgat cgatggaacc atagtggagg 180  
 tagctcgtc gttggatggc agcgtacgtg gccatcagca gcatgcagtc gtcgtcgtag 240  
 cagagatgtc ctagctacgc gtgtgtcatg catcagactg gcacataata aagaagtaga 300  
 tcatgcaccc actagtgatc acttcgtcta gtgtccctac gttcaatgtc gtcgtcatca 360  
 tcgtgtacct tacgtgacat gctgtaacac gtacgctagc agagcagcac ctcaatgtcc 420  
 ttgggt 426

<210> 34578

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E10

<400> 34578

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gcatgtcgta ataaaatcaa tttctttttt tttttttaat aaaaaaatt ctgattttct 180  
 ggggtctagtg aataaatgga tagagcctgg ctctaattct ggt 223

<210> 34579

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E12

<400> 34579

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 tcgtcctcct catccgctgg atctcctcgg tcgactcctt cgagggctac ctgggcttct 180  
 acccgagggga gagccgctgg aaggggcgcgt acgagcgggg ccccgccgag ggcagctcgc 240  
 cctggggcgct cgccttgctc gtcctcctcc tctcgtgct cgcagcttc cactccacca 300  
 tccacgacat gtgggggccc tgaacggccg gatgtgggtc ctgctcctgt tcgattccac 360  
 gcgcgcacgt atgcgattgt actgctgggt gctgcttgat cgatcgatgg atcgatgatt 420  
 ccatgtacat atttgttagg gggatgctgc tgct 454

<210> 34580

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E3

<400> 34580

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 atggctgccg caaggggcat taaccagctc ctgaagagaa ctttctacaa ccagtctgct 180  
 ggttcgtcgc cgcttttctc atttcgggga aagcatgaag aatcctctgc tggactgaga 240  
 gcattggctc ttcttgaggt tggtgccctt ggtcttttga gttttgctac aatagcatct 300  
 gctgatgaag ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc 360  
 atgagctcgt atgatcacgc atcaattcgg cgtgggcatc aagtttacac gc 412

<210> 34581  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E5

<400> 34581

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gctgaggcca ccatctccac acccaaggtt gcacctgaga ccactaccat ccacattgag 180
gttgcgggcaa aacatgcagt agttgagaag gtggaggagg acaaggagga ggcactaaca 240
gtggcgggcga aacaagagcc agcagccacc attgagcctc agcagattgc tagtgagggtg 300
accacttcgg aagtggcggt cgtcgttgtc gagcctgaga acaaagagga ggaggaagtt 360
gtggagaaga ccgtcatcga gaaggagaag ccatacagcag tccatgcaga ggaaaatt 418
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<210> 34582  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E8

<400> 34582

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aggccttgct cggcttgaaa gaagcaagag atgggacact agggagagga agacggctct 180
ccagaacctg gaacagttcc aggagaaggc aaagaaggaa aggctgcgga tttggcagta 240
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tcggtagagc tccccaaatg tgagactctg ctgggagtta tagattcaac ttagagggtg 360
ccttatttat tcggttagaa aacagaactt agtgaggcga aactttctcg gtttgagcac 420
ttttgatatt ccgtttt 437
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<210> 34583  
 <211> 438  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E9

<400> 34583

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aaaaaacata aaaaaaaaaa aataaaaaaa aaaaatacaa aaaaaaaaaa aaaaaatata 180  
aaaaaaaaaca aaacacaaaa caaaaaata aaaaaaata aataaaaaaa aaaaaataa 240  
aaaaaaaaaaa aaaaaaaaat aaaaacaata aaccaataa acaataaaaa aaaaaaaaac 300  
aaaaaataaa aaaaaaata aaaaaaaaaa taaataata acaaaaaaaaa ataaaaaaca 360  
aaaaaaaaaaa atataaaaac aaataaaaaa caaacacaaa aataaaataa aaacacaaaa 420  
aaaaaaaatac atacaaaa 438

<210> 34584

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F12

<400> 34584

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tgtgaggtgc tccattgaac tgcttgatca cccaaaagat tacacgacac ctccagaaga 120  
acttgtactt ctaccagcaa gtgctaccct aggtgacctg aaagtacagg cttcaaaggc 180  
tttccaagaa acgtacctga tgttccaaag cttccagact gaacagctcc ctgactttcc 240  
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aaggggacgt tgcaactgggg attacaggag aattgtacag ttcaggatgg agaggggttt 360  
ggagaactgg acggtggact gctcatgtgg ggccaaggat gatgatgggg aacggatgct 420  
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<210> 34585

<211> 184

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3068-002-Q1-K1-F4

<400> 34585

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acactgactg caccttcacg aggatgtctg gttcttaatt ggttcacaaa tatattggtg 180  
aaag 184

<210> 34586

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F8

<400> 34586

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acaggaaaga cattgctggc acgtgcggtt gctcatcaca ctgactgcac cttcatcagg 180  
gtgtctgggt ctgaattggt tcagaagtat attggtgaag gttcccggat ggttcgggaa 240  
ctctttgtta tggccaggga acatgcgcca tccattatat ttatggatga aattgactct 300  
atcggatctg ctagaatgga gtctggaact ggcaacggtg atagtgaagt gcagcgtacc 360  
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<210> 34587

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G10

<400> 34587

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gagatcacia atcatattac aggtctgatg gtatatctca gtatagaaga tggaaatagc 180  
gatatttttt tgtttataaa ctcccctggc ggggtggctaa tctcaggaat ggcgattttt 240

gatacgatgc aaacggtgac acctgatata tataacaatat gcctcggaat agccgcgtcc 300  
atggcctcct tcattctgct tggaggagaa cccaccaagc gtatagcatt ccctcacgct 360  
aggattatgc ttcaccaacc tgctagtgtt tattatcggg caaggacacc agaattttta 420  
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<210> 34588

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G12

<400> 34588

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aatagccagt actataatta ttaattataa ctccatatat taaacatcaa aaaacataaa 180  
acaataatcc tattatgtta tccgatgcta atgaatccag agctaaagaa taggttcagc 240  
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<210> 34589

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G3

<400> 34589

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atgtttggac tttaactttg ttttatgttg gaaagtactt gaaagacttt tcctgtggta 120  
attctaggcg taagttgctg tgctggttgg ggtttactgg tgaaccagag tttttctatc 180  
ccactatgaa tttgttacct c 201

<210> 34590

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D12

<400> 34590

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cggcaagaag taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct 180

cggcgtggcc ccggagaaga aggccgcgcc cgagtctgtc gaggccgcgg cggagtccgg 240

cgaggccgcc cacggctgca gctgcgggtg ccaactgcaag tgcgaccctt gcaactgctg 300

atcacatcga tcgacgacca tggatatgat tattatctat ctagcttgtg gtggtgggtg 360

aacaataata agcgaagccg agctggctgc catacatagg tattgtgtgg tgtgtgtgag 420

agagagagaa acagagttct tcagtttgc atctctctct 460

<210> 34591

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G4

<400> 34591

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gtcgtcacta tcgtcgcttt taggttcata tgcccatagg tgcttttgca gccgtcgtg 120

atcgggatgg aagctcccgg catccacgag accacctaca actcgatcat gaaatgtgac 180

gttgatatca tgaaggacct gtacgggaac atcgctctca gtggaggac gaccatgttc 240

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<210> 34592

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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accgcggata agcttcagct gctgtcaggg atatctgggg cttttcgacc tgggtgttctc 180  
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 aggaagactg gaggatatat tgaaggagaa atttatatat ctggttacct taagaaccaa 300  
 gaaacatttg ccagaatata aggttactgt gaacaaaatg acatccactc tccacagatc 360  
 actataaggg agtccctact ctnttctgct ntcattgcgc ttcctaagga ggtcactgac 420  
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<210> 34593

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A3

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 tgettaagtt tctttgctgt tccaagttta gtgacaaaac tgacaatggg ttagcaactg 180  
 ggttgtgctg cgaccagtat tttcgttttg cctacctgta ttgtctagtc tgtgtttgca 240  
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<210> 34594

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A4

<400> 34594

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 cttcttctcg gaggtcggag aagagctctc tgcttcattc ggccgggtcca actccaccga 180  
 ccgatccaat ccaaccact gaccatgggg ttcccgccgg tgtgctgctg cgcccccatc 240  
 cccaagccgg tcgtgcctt ctgcaacctg ctcggcgcca tcaaggacgc cgtcctgctg 300  
 acgctcgccg ccgtgggctt cccgcacgac gccgcgcgcg gctcggcgga cgcccaccag 360

cccaggagg tgaagacccg gctccccgcc gtggagtacg cccagctcct ggccgagca 419

<210> 34595

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ccggccgggg gcgaccactc cccggccttc tegttagca tctggccgcc gacgcagcgc 180

acgcgggacg cgggtggtgcg gcgcctcgtg gagacgctcg cgggggacac catcctctgc 240

aagcgctacg gcgcggtgcc ggccgtcgac gccgagcccg cggcgcgcg ccatcgaggcc 300

gaggccttcg acgccgcggc ctccaaggga ggcgcgctg ccgccttcgt ggaggagggg 360

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tcccgc 426

<210> 34596

<211> 334

<212> DNA

<213> Zea mays

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<400> 34596

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agcggctacg gcaggctccg gcccggcgac gactacgaca gcggctacaa cagcaagtcc 180

ggcactgatg actacggccg tggcgaagggt ggctacaaca agtcggggcg cgatgacgac 240

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accggcggcg gtggctacaa caagtccggc ggcg 334

<210> 34597

<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B4

<400> 34597

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cttccacccg ggggtgctatc ttttcaccaa gggcatgggc gccaacctct tcgaccggcc 180  
gcagctccat cttctttacc gtctacgact ggctctacag ctactagacc aggagcaacc 240  
accgttagat cgttcgagat ggatggacag tgaataggcc atgtttgctg gtccttgtgg 300  
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tgtgtattgt tgtttttgtt ct 382

<210> 34598  
<211> 419  
<212> DNA  
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<223> Clone ID: LIB3068-002-Q1-K1-B9

<400> 34598

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catagcagcc ctctggtaag gaacggtgcc ggccgtgttg tccgtagacg attgaggggg 180  
acagaaagag attctttgga tgtttttctt tgtttccttt atttataccg agagataaac 240  
aaataaaaaa acccagagac gaaaaaactt tttttcttga accgccctgc ttccccctctg 300  
gtgttgggaa tttgtgattt tgacatacga cctgtatggg tatttttccg gccggtgaat 360  
gatgatacca ggatggacgc gctgaagtgt aacaacaact gcgccccgcc ggaggagac 419

<210> 34599  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C1

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acctgacct ggaggagacg agcaccgccg cgcattgccac cgacattct 169

<210> 34600  
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<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C11

<400> 34600  
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ttgccggtgc cgcagacggc catgggtctg cgaaggtgcc cttgtggaaa gatccgttga 180  
gcccagagcaa gtggaaggaa gagcactttg ttctagcaag cctctcaatg tgggggggta 240  
ttttttatgg tggttacaag ctttttagtg gaaagaagga agccaagact gaggcgggat 300  
caccacaggc ataggtggcg gagatggagt tgtaccata tctgtggcct ggcaacaatg 360  
ttaaataaaa ggaatgcttt atgttgtgct ttcaagttga taaattgtgg caacaagaga 420  
ttttgcttta cctaggcaat atattgagaa gct 453

<210> 34601  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C12

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acatgttccc ccttcagatg ttgtggatgt cgttgtcagc ccttcttatg tatttcttcc 180  
tgtggtcaat atccagctgc gccaaagatt ccatgttgcg tctcagaact gctgagttaa 240  
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ctgtgtcatt cttggacact cttaaaggaa agctctgctg tgagaatcaa atgaatttgt 360  
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<210> 34602  
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 <223> Clone ID: LIB3068-002-Q1-K1-C7  
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 ataattattat gatgtgctag attc 144

<210> 34603  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-002-Q1-K1-A1  
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 accaatgggt aaccttgaaa tgtgcatgac tggctctggac aagaagatag cttctgtctt 180  
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 catctctgaa atcatccccg agatggagat ctgcgatttt gactttgaac cctgtggcta 300  
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<210> 34604  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-002-Q1-K1-C8  
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ccgaagaagt tcggtggctg tggcgcccg gccaggttcc agaagtccta ccgttgagcg 360  
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ctgtaccgt 430

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<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-002-Q1-K1-C9  
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ggttcatgcc tacgtactct gatcgaggta acattcattt actatacacc ttttatcatc 180  
tttggtatct tattttctac accattcttt actttttaca tgctctattc gttctatctt 240  
aaaatactat ttatctttta tattttttcta ttattactcc cttttttttc ttatttttat 300  
atttcattac tttttatttt ttctctcact attttttctt tatttatattt ttttaattta 360  
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<210> 34606  
<211> 362  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-002-Q1-K1-D10  
<400> 34606

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taggattccc ctggtaactt ggagcgaacc gggagcagcc cagcttgaga atcgggcggc 120

ctagccgtcc gaattgtagt ctggagaggg gtcctcagcg acagaccgac cccaagttct 180  
ctggaaaggg actcctgtga ggggtgagagc cccatgctgc ccggaccctg tcgcaccacg 240  
aggcgccatc aacgagtctc tttgtatggg aatgcatgcc aaatcgctcg gtatactacg 300  
tccaatgcta aatacaagcg agataccgat agctaacaag taccgttaaa aatataaatt 360  
at 362

<210> 34607  
<211> 331  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-001-Q1-K1-G10  
<400> 34607

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ccccaccca ccgtcctgct tttccccggc ttccttggcg ttcacacgct ggctccagtg 240  
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<210> 34608  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-001-Q1-K1-G11  
<400> 34608

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caggagagtt gcagacaaac atctatTTTT gctttattgg ctatcccaga ttcttttact 240  
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tctgcttctt gggaaatctg catgcaagtc aagaagcatc agttagaatt ggacatggag 360

aaacagactg gttccaaatc aggtaaggag tatgtcaaag ctgcatattg tcac 414

<210> 34609

<211> 254

<212> DNA

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tccgtgcacg tgggtggccgt gatgctgtac ctgctggacc gcttcagccc ctteggccgg 180

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atctcctggg gcgt 254

<210> 34610

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G3

<400> 34610

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ttacatattg taggttagca ttacagcatt atgcagtttc acacaattca tgttagcttg 120

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<210> 34611

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G4

<400> 34611

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gccgtggtgg ccctcattga cgtcttccat caatattccg ggagggaagg tgacaagcac 120

aagctgaaga agtcagaact caaggagctc atcaacaatg aactttctca ttttttagag 180

gaaatcaaag agcaggaggt tgtggacaaa gtcattggaga cactggacag tgatggggac 240  
ggcgaatgtg acttccagga atttatggct ttcgttgcca tgattaccac tgectgccac 300  
gagttcttcg aacacgaata aggaaaagaa agcagcggag ctgtttctgc agcagagacg 360  
gagtttgacc aggggaacac aggcagggct tgcagggctg taggagctga gctttccgtg 420  
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<210> 34612  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G5

<400> 34612

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gcgcaggctg ggacgcctct cccccctccg cccccgccgc ggaaagttaa gtttgaagag 180  
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accccggcag ctgttcgaga acttgttctg gacaactgca aatcaaatga tgggaaaatt 300  
gagggcttaa cagctga 317

<210> 34613  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G6

<400> 34613

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tttatcctga atcacgactg taatgtctac cacttggaaac cagtgcctcg tctgtaatcc 180  
catacattaa gaaagttgct catcatattc caaactattt t 221

<210> 34614  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G7

<400> 34614

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atattttaaa cctgaagcac gactgtacat gtattcatac gtggaaccag tgcgctcacc 180

tgtaagcctc atacactagg aacgttgac atcttattcg caacgaatat cgttcagcct 240

ggatatctata gagcctaact ctgtagaaga gatcgttagc taaacattat gtctgttgta 300

actcagataa ggatctccac ttctgatatt gagtactgat attttttc 348

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<223> Clone ID: LIB3068-001-Q1-K1-G8

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gactgtaatg tctaccatct ggaaccagtg actcacctgt aagctcatac cctaggaacg 180

ttgcacatct tattccaaac aatatcgggc tgtctggtga tcttttagagc cttactctgt 240

taaagtgatt gtcagccaaa cattatgacg gatgtgactc aaattagtgt ttcccacttc 300

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<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G9

<400> 34616

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caagtgcttc cgagattaaa accgcttcat cgggaggtag tgtgtgttct tttccagaac 180  
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 gtcgtacgtc gtgccctgtt ctcccttagct agttaaaactc acgagctgtg ttttacaact 360  
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<210> 34617

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H11

<400> 34617

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<210> 34618

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H12

<400> 34618

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 ctcatattaa tctatatcat gctaaattta tgtaagctat gtgtaccaa catgtattgg 180  
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<210> 34619  
<211> 107  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H2

<400> 34619

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<212> DNA  
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<223> Clone ID: LIB3068-001-Q1-K1-H3

<400> 34620

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ggttgtaagt gtattagttg tttgttgtca ctatcagggtg gctgggagct gaggctccct 180  
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aaaactcagg ttgaaccatt gttaagtcgg agactgtcta aatttattat gtagatgttt 360  
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ataat 425

<210> 34621  
<211> 351  
<212> DNA  
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<223> Clone ID: LIB3068-001-Q1-K1-H4

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gaagatgatg aatTTgtttg tcagataatt tatgtcttct accaaatggg tttccatcaa 180  
gccacaagag atgtcataat caaggaaaca caggctccag catatctcat agatcttatg 240  
catgataaaa ataatgaaat ccgaaaagtc tgtgataata cattagatat tatagcggaa 300  
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<210> 34622

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G1

<400> 34622

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actcactttc actaagcatt gaatggcctt accactcttc tgcaagatgg aggaagactg 180  
caaaacttag tgcccatcac actgaaggaa ggggtgtggc tcttttctctg cttctgtact 240  
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ccataagttt tgaagtgact tcagcttcat tgtgaaatag ctctcttcat atttcatagc 360  
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<210> 34623

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H8

<400> 34623

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aaaggatttt agcaggaacg tcttgcctat taatgggtggc aaccaactgg actgtcaatg 180  
cttctgcct cactctgcgg tccattctga tatatcttat gcatgatata taatatgtgg 240  
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 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H9

<400> 34624

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 tcctctgtta ctgaatcctc tttggtctcc ctgttctggc tggcatctgc tctgctgctc 180  
 cactcttctc cgtgtgacat cctgacttat accgacatta tcatcgtaca atcttctctt 240  
 ttctcgtcat cttatgtggg gcaggtctc 269

<210> 34625  
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 <212> DNA  
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<223> Clone ID: LIB3068-001-Q1-K1-E12

<400> 34625

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 gtgcctatca acagatgacg atgataaaat ggtgtgtgtg cgtgtccgac tctgcaaccg 180  
 acagtttgtt ccgactctgc aatctcatgg actgtggcct gccaggctgt tctatccatg 240  
 gaattctttg ggcaagaata ctggagtaga tagccactcc ctta 284

<210> 34626  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E2

<400> 34626

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gagactgccg gatttgacaa ttagggaatt ttttgacaga attctcagtg agtgaagaag 180  
acagacctga ctggaagtaa ttagaggggtg aagtggctgt gacgtattgg aaccaataat 240  
ctttgggtgc taagggtgaga aatttgacag tgaaatgaat aagatacgta tgtttttgaa 300  
tgtatgtctt ttcttttaag cactagagac tttcaatatt tctgagaaag atgggtgacca 360  
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<210> 34627

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E3

<400> 34627

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aaaagggaaa ggctaccac tccggtgttc ttgcctggag aatcccaggg atgggggagc 180  
gtggtgggct gccgtctatg gggtcgcaca gagtcggaca tgactgaaat gacttagtaa 240  
cagcagccgc agcaccact ccagaattct gtccctggaga attccatgga ctgtatagtc 300  
catgggggtcc caaagagtca gacacgactg actttcactt tccagtgggt aagactctgc 360  
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<210> 34628

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-E4

<400> 34628

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gcaaaataca gctcttcatg aagcaactct gcttggccgg gcaggaaggg agtgcacgc 120  
tgccttactg ggatgcaacg ccagcgtcca gaagaagaat gcgagaggcc agacggcata 180  
cgacctggcc ctggaaagtg gggatgagcc catcacctcg ctctttgctg ctaagcttgg 240  
cctggatgaa cgctaagcct gaaagcccca cgggcatcat tcagagaagt caccagctc 300

cggctgtgct gtgttcgctt ccttccaaat gcatattcga ggtttggaaa tcgagcttga 360  
gagccactca taagatntta aaaactatgt gacagtgtaa gccacccatg 410

<210> 34629  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E6

<400> 34629

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tgtggtggac gctgctcaca caccttagga gcctgatcgg cgcgtgcgga gaagggacgc 180  
ggagcggact cggccggggc ttgttgggtc ccgcgacggc gcatgcgcgc ggggaccgca 240  
gctgctcact cgacgaccta ctttctacgg agcccggccg gagggctgat gccgcgctgc 300  
tcatagcggc ggctggacgt tccgggagcc tggcggtgac cgtggctatt gctagagcga 360  
aggttacagg tg 372

<210> 34630  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34630

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cagcccacct actggggacg ggggcctggg gcccagtcg agtctcttgg ggaggacgtg 180  
cagggtgctt gcccggagga ggggtggggc cctgagacag cttgcctgcc tgcagatgcg 240  
gctggggcgg ggcaacaggg aaggcctgcg gaggccaggc tgtcggccta ccggcctncc 300  
aggagctgct cagatcccat cgtcatccgg gcacgtgggg acttttaact ctggtgacag 360  
tttcagctac ctttgggtca gggactgaaa ctggagaggg tgggggggtg gggtctttta 420

tg

422

<210> 34631

<211> 409

<212> DNA

<213> Zea mays

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<400> 34631

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cgctttctag cacgttcgac agtgctacag gcatgcacac gggctctgctg cgtcataagc 120  
aggaggagga cctgtacaat ggcgtatgca taccagggtcc tgtgtaggtg cctgtgctag 180  
actagcgcct cagctcgcaa tggcatagat gctaccaata gcatcccagg tcgagatatg 240  
attctaagga gagcatgctg tatgagtgtt ggcagtctta gactagtgtt gtacccttaa 300  
ctacgaacag ggttcattga gatccgtgca ttatcatcat agagcttgga gactatgctg 360  
actgtacatg cacatagatg ctttcaaaca gtgccctcag agttttgtt 409

<210> 34632

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E9

<400> 34632

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ccaccggggg cggtactggg gcaagttcta catgcctgag cgcgtgtagt gaggctcaag 120  
agcaggaatc cgcgccttcg tgcccctgag ccagtccttc gggctctttg gtacctctga 180  
tgtcataacc gaggagcagc atgtgaacag atgctctgaa aaactgtacg tcacctgtcg 240  
gattctttta agtacattat attaaagttt gacggttagc tc 282

<210> 34633

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F1

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<210> 34634  
 <211> 202  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F10

<400> 34634  
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 attactttat cccagtctcc ttacgctgta ggtcattcct ctggaaaacc acacagatgt 180  
 agtcctcatg cagacaggcc at 202

<210> 34635  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F11

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 atggcactgt gctgggtgct gtattcgagc ttggggagat gacatattta tgatggtaat 180  
 acgtgaagcc tatctctttg gggggtgtac agctagtggg actgagagca gtgcaagaca 240  
 tagtaagagt gtctgagctg ca 262

<210> 34636  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F12

<400> 34636

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cttccaagag ctgcaactcc ctccagcact tcttacctac tctttcgctg ccagctggag 180  
cttatgctca gctctgggca gtgctgatca caacccttct gtgggggaaa agtgagttag 240  
agcatttggc tccagttttg gaaggccctt accttaccca taattctgaa ggctcctgta 300  
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<210> 34637

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F5

<400> 34637

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cattctaact cgatgctgta tgtcatgata ataacctgaa tctcttgagt tacttctaag 180  
atcgatatctg agaggggtacc gtcgacttga agcatacgaa taatcttgag cacaagaacg 240  
gcagtgcctt agtactttcg aaaagactta ctgctcatct acaaatagat gctgcctaaa 300  
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<210> 34638

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F6

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cctaaactca gcgttgatag ccatacatca tatcagatgg atgaaggtta cctgtcatat 180

agtagcctag catctaacct agaagagatg caatgaatac ctgcccgcac catgtctgac 240  
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 ataatagaagc ccagatctgt ata 323

<210> 34639  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F7

<400> 34639

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 gttagtatga ggcattactg tgatgttcaa aatctgtaac ctgagagtta cctgtgagat 180  
 aataacctga 189

<210> 34640  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E11

<400> 34640

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 cccaaggcaa gctggcccag acatttagcc atgcaccatt ctgttacctt gcgagtctga 180  
 taataaactt gctgctgacc tgctgtgctc acagtagatt ctaaactgga ctaattattg 240  
 tgggggtttta atgagaagcc taagtttgga aatccttaag cagtgatgtt gaaaaaaaaa 300  
 atgaagccct gaacagttta aaggttaaca tcctgtttct agaaagagaa agctgatggc 360  
 aaaggcacat tccaagtgac ccgaatccag gtgcccccat cctgcaatag gcagtc 416

<210> 34641  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F8

<400> 34641

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ccttaggcgt tactggggca cgttatacat gcctgagcgc gtgtatcgag gctcatgtgc 120  
aggaatctgc gccttagtgc ccattgacca gatcttcagg ttttagggta cctgtgatgt 180  
cataaccgag gagctgcatg tgaacagatg ctctgaataa ctgtacgtaa cctgtcggat 240  
tcttttaagc tcattatatt aaagtttgag cgttagctca aaatgcactg acaccacaaa 300  
atggatccca gatcagtcta ataggacggt tattctatat ggtccaagct ta 352

<210> 34642

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C5

<400> 34642

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gcggacggga aactgagact cagtgttctg atgcttagag gagcgtgtaa cagaggcatc 120  
atgcactatc tatactagcc agagacgaag cgagccaaat ctctaggtct tggacgtacc 180  
tatggcgtcg tatctgaatt acataatcca gagcagatgc taagaata 228

<210> 34643

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C6

<400> 34643

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acttgaatgg ttaataaaac tgcacagtgc tgtaaaaaaa aataagaata cctatgatat 180  
cataaccgac gagcataaat gtgaacagat gctctgaata actagacttg aacatgacag 240  
attctattaa atacattaat ataaaagttt gagcagaacc aacaaaatga aataaaaggg 300



gctgcccttt ttaaggattc aaatttaa

328

<210> 34644

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C7

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ccagcggatc cacacggggg agaagccctg caagtgcgac tactgcggga agggcttcag 180  
cgacttctcg gggctgcgct accacaagaa aatccacacg ggtgagaagc cctacaagtg 240  
ccccgtgtgt gagaagagct tcatccagag gtccaacttc aaccggcacc agaggggtgca 300  
cacaggtgag aagccctaca agtgcacccg ctgcggcaag agcttcagct ggagctcgag 360  
cctcgacaag catcagagat ccacactggg aaagaagccc cgcccgtagc cgggctctct 420  
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<210> 34645

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C9

<400> 34645

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gttctatgta tttacatgtg gaataaaaaa aaaaaaaaaac tcatataaaa agagaacaga 180  
tatgtggtta ccagaggcga gaagtgggag gtaggagaat tgggtgaaag tgggtcaaagt 240  
tacaaacttt cagctaaaag ataaataagt agtaaggata taatgtacaa catgatgact 300  
gtagttaaca ctattgtata cttgaaagtt gctaagagca tacattccaa aagttcttac 360  
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<210> 34646

<211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-D1  
  
 <400> 34646  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-D10  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-D11  
  
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 cctagaataa agctgactcc tatctcctga tatgaggttc agggtagcct gatgacctct 180  
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attccatggc agttggatat aatataacct tacagaatat gggatgtgtt gatgatactc 360  
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<210> 34649  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D12

<400> 34649

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tttcaaagaa aggtcaacag agcctccatt cttggatctg caacttggtc tctgtaagag 180  
gtcttcttta aatccaggac ccaggatagg aaaagggttt ccttgacagt ttacaggaaa 240  
cctgcaggaa 250

<210> 34650  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D2

<400> 34650

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acagcctata tgatatgtct acaagcggct tctacagctg aattccaagt aaatagatga 180  
cccaatccaa taatggacct aagaactgaa tggacatttt ttcacagatg acatacacat 240  
gactaacaaa cacatggtaa gatgctcaac atcacttatt atcaagagaa tgctgatcaa 300  
gaccgctatg atgtaccatt tcacg 325

<210> 34651  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D3

<400> 34651

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gctatctaata tcatgtgggc cgatcagctg attcacatat ttaacgcgta tgggaatgac 180  
agtactagca ttgtgggtgcc tgggtatttat gtcacattac agaaggtagc acaaacataa 240  
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<210> 34652

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D4

<400> 34652

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<210> 34653

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D5

<400> 34653

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ctatgtattc tagatagata tgaaactggt ttaatgaata aatattgtac tatctatggt 180  
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<210> 34654

<211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-D6  
  
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 tgcctactc tccacttcct ggaaggtgag gaggactctg agtcagacag tgaggaagaa 180  
 gaggaagatg atgaggagga ggatgaagat gacgaagatg atgaggagga tggatgatgag 240  
 gtgcctgtac ccagcttcgg ggaagccatg gcttactttg ctatggtcaa gaggtacctc 300  
 acctccttcc ccattgatga tcgtgtgcaa agccacatcc tccacttgga acatgacctg 360  
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 agctga 426

<210> 34655  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-D7  
  
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 gcagagctga ggtgaaactt cagggtgact gctctctgaa gctgaattct tcctgtccta 120  
 ctacactcct tctcatgaaa tgagccctcg ggaaggtctc agtgcgctgt gcatgctgat 180  
 gaccagccc ctgtgcacga ggccaattag ctttgtagcc agaggacaac aggtcaagcc 240  
 atagtgccgg gggaggggag gggggcctgc tacaggaaaa ataagaagtg tgggtcccca 300  
 gttgggttag gatgtgtggc tcttctcgga aacacgtagc atccctaagt cagagctttc 360  
 tgctacactt ccggaagagg ctcgagagct gaggctgggg tccctctccc atgccaggc 420

<210> 34656  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D9

<400> 34656

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gattaggcct ttctgtggca agttatacat tacttagcac gtgaatcgag gctcatgtgc 120  
acgaatccgc tccttactac cattaatcca tatcttatgg tctgagggtta cctgtgatgt 180  
aataaccgag gagctgaact tgtacagatg ctatgaataa ctggccgtaa cctgtcggat 240  
tctgttaaca tcattacatt agaacctgat cgtagctca taatgaactg acatcaaata 300  
atggaataac aaatctgtct aaagggaccg acgatgtata tggaccgagc taacgaacat 360  
cctgcttg 368

<210> 34657

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E10

<400> 34657

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aatggcgaat ttggtaaacg ccctgctgaa gatatggaag aggaacaagc ttttaaaaga 120  
tctagaaaca ctgatgagat ggttgaatta cgcattctgc ttcagagcaa gaatgctggg 180  
gcagtgattg gaaaaggagg caagaatatt aaggctctcc gtacagacta caatgccagt 240  
gtttcagtcc cagacagcag tggccccgag cgcattattga gtatcagtgc tgatattgaa 300  
acgattggag aaattctgaa gaaaatcatc cctaccttgg a 341

<210> 34658

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C4

<400> 34658

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gtttacaact attagaaagt ggagctgttc caaaaagaaa agatccgtta acacatgcta 120

gtaattcact gcctcgttca aaaacagtta tgaaaactgg acccacaggt ctttcaggcc 180  
 accatagagc acctagttgc agtgggtttat ccatgggtttc tggcgtgaga caaggacctg 240  
 gttctgcagc tgccactcat aagagtacac caaaaacaaa tagaacaaat aagccttcta 300  
 cccctacaac tgctgctcgt aaaaagaaag acttgaagaa ttttaggaat gtggacagca 360  
 accttgctaa ccttataatg aatgaaattg tggacaatgg gacagctggt aaatntgatg 420  
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<210> 34659

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A9

<400> 34659

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 ataagaggac acattggaaa gcttttgggg aacatcagaa cacaagtgct tataaaatta 120  
 aataagcctt acacaaggat tcatattcct ttttaatttct aaaggggtta aacttagatg 180  
 tagctgatgt gaaagctgct gtgcattgct atgggataca ctattcatgg gccaaattga 240  
 tcaagtcaac cagttccttg gactggatca tcaaaagagg ggtgggtgcc gatatactgg 300  
 actagataaa tggaccaacc aactaaattc tctcaaccag gctgtagtca gtaaactggc 360  
 ttaacagaga acagctttta cagac 385

<210> 34660

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B1

<400> 34660

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 cttttgtcag caagaggtcc ccgctagaca tgaaggacgg cttcctggcc ttccaaacta 120  
 gccgctacaa actccattac tacgagacgc cactgggat caaggttgtc atgaatacag 180  
 acttgggcgt ggggcccac ctagatgtgc tgcaccacat ctacagtgcg ctggatgtgg 240

agctggtggt gaagaatccc ctgtgcccgc ttggccagac tgtgcaaagt gagctcttac 300  
 ggtcccgact ggactcctac gtccggtctc tgcccttctt ctctggccaa gctggcttaa 360  
 ggaagccctc tacctgacct ctcataagaa tccctgtctg cctggggccc aacttaacct 420  
 gc 422

<210> 34661  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B10

<400> 34661

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 cataccaata aattcggatg gtcacactaa cagaatgaaa gataaaaatc atatgattat 120  
 ctcaataggt gcaggaaaag ttttgacata atttaacatc tgttcattat aaaaagtctc 180  
 aacaaaccag ctggaggaaa gagatgcacc tcagtacata aaggaaggcc acgtatatca 240  
 agccccccct aacgccatac tcaaagatga aggactaagg actgttcccc caggaccaga 300  
 atcaagacat ggatgcccac tctcatcact tctagtcaac agcactggaa gtccaaacca 360  
 gagaaatcag gcatgataaa taaaagtc 388

<210> 34662  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B11

<400> 34662

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 ctgcgccgtg ctgattgtgg ccgcatgagt gggtaggttc gaggcaggca tcttcaagaa 120  
 tgggcagacc cgggagcacg cgctgctggc ctacacgctg ggcgtgaagc agctcatcgt 180  
 gggggtgaac aagatggact tcacggagcc cggctacagc gagaagcgct atgatgaaat 240  
 tgtcaaggag gtcagcgctt acattaag 268



<210> 34663  
 <211> 170  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-B12  
  
 <400> 34663  
  
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 tgggtggccta atcggagagg ggatgttacg tggccgacgc tgtgaagccc atattgtaac 120  
 tgtgcaagcc tacgccgttc aagcctatgg tggaagcacg taggaagagt 170

<210> 34664  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-B2  
  
 <400> 34664  
  
 cggacgcgtg ggttcttatg tcagcaaaga tgttaagttt tactagataa gcagaaaaga 60  
 taaatctcaa atgcagtgtt atttactctt ttcaaacag ttttcatttt cttaagcaca 120  
 ctgtacattt ctgtagaacc tgcatttttt cttgcacgct aaaaacggta cttgcgtctg 180  
 gtgaattact gctgacagtt tccacagaaa ccctgtttca gtggaccaac attgtggcat 240  
 ggcagctaatt gccagcattt tggggaatag cagctaattt acaagtgacc ttggttggtt 300  
 aactatgttt gtttgat 317

<210> 34665  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-001-Q1-K1-B3  
  
 <400> 34665  
  
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 agaaggaact ctacaaattc taagtaactg gctattatta ataagagtaa aaaatctact 120  
 atacttcaat aaaatatttt aagacaaaaa ataggaagtt gcatgggata gccgagttga 180  
 ctactaaaaa ttttatttac ataatttttc taatatgaaa attacttggt ttcagcccc 240

cttcacaatt gtatttttaa ttaaggttat taatgtttta acctagatca tataatggta 300  
aattaatttt ttaaatttga tatccgtact gaacttgga aaactg 346

<210> 34666  
<211> 393  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-001-Q1-K1-B4  
  
<400> 34666

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ctcaagttcc tcatggacct cggctgcaac ggcgagccct gcttctcgtg tctgtaccgc 120  
aacggcccgt acccgccgc cccgcgcgcc tccaacaggt tcaatgatgc gccgcctcg 180  
gacaaggcgc ccagcgcggt ccagttctgc gagttcctgt ctgccccgga cgtgagccgc 240  
tgggcagggc ccatcatcga tgtactcttg gactacgtgg gcaacgtgca gctctgctcg 300  
cggctgaagg agcatattga cagcttcgag gactgggctg tcattaaaga gaaagcagaa 360  
cctncaagac ccctggctca tctgtgccgg ctg 393

<210> 34667  
<211> 212  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-001-Q1-K1-B5  
  
<400> 34667

accttcgtag acccctgggt tctagatcct tagctttcac cctttgctaa tacttattcg 60  
aggtgatttt tttgcaacca aacaagtaat aaatattatt tagcactttt atctatttac 120  
aaatatacaa cagcttatac actctctgca aggggcagca atcagagagg tgatgttacc 180  
tgtcctacgc tttgaagccc ttattgaaac tc 212

<210> 34668  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B6

<400> 34668

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gaggctgttg gccaggggtg ggggagaagt gaccagcgct ctctgggtct tcccagggac 120  
agctggagag cagtgaacc ctccctgca tgtgttcgtg gctccgcgca gccaggcctc 180  
gccttggtc ctctccagat cctacagcag ggccaggact agggcctggc gagcagagcc 240  
tctgggctgg ctgctggccc tggcactcag ctctggctt cagggaagca cacagcagtg 300  
gacggactgt cccaggagca caggggtgat gcaaccaca gctgagaagt gccttaatgc 360  
tgggaggctg aaaagtgggg gtggctcaca gtcttgcc 399

<210> 34669

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-B7

<400> 34669

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tgctcggcag ccgcgaaaca gcaactatgc gtgagtgcac ctccatccac gttggccagg 120  
ctggtgtcca gatcggaat gcctgctggg agctctactg cctggaacac ggcattcagc 180  
ccgatggcca gatgccaagt gacaagacta ttgggggagg agacgactcc ttcaacacct 240  
tcttcagtga gacaggggct ggcaagcatg tgcccagggc agtgtttgta gacctggaac 300  
ccacagtcac tgatgagggt cgactggca cctaccgcca gctcttcac cctgagcagc 360  
tcatcacagg caaagaagat gctgccaata actatgcccg gngtcactac a 411

<210> 34670

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B8

<400> 34670

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aggggggactc atcttcttgg gagcccgagg ggctttcaag gcgccatgct gctactgctg 120  
 ctgggcctgc tgagcccggc ggcctacggg gctcggggac cggccccggg gtccgaggag 180  
 ctgcgctcgg acttctcggc ggcgcgcacc accccgctgg agggcacgtc ggagatggcg 240  
 gtgaccttcg acaagggtga cgtgaacgtc gggggcgact tcgaccggc caccggccag 300  
 ttccgctgcc gcgtgccggg cgcctacttc ttatccttca ctgcgggcaa ggcgcgcac 360  
 aagagcctgt ccgtgatgct ggtgcgcaac cgctacgagg tgc 403

<210> 34671

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C1

<400> 34671

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 agtgatttgc ctgaggagat cacagctggg aagtgatgga gtgagggttc agactgtctt 180  
 ccttgtccat gcacttatcc attgcctcta ctgtatcgca tgtgagtgtg catgtgtgta 240  
 taaaaatgtg cttctgattg cctgtaggag ggttcacacg ttgcagagca ttagttctag 300  
 gtagtgtaa cagtttgctg cggccctttc tgttaagttt catagggtgtg cacacatata 360  
 tgagcaatag tgggatcatg ctgtatatcc agtttgatc tttttgcact ttgattggat 420  
 atc 423

<210> 34672

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C11

<400> 34672

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 aaaaatggaa atctttaata caaactctga gtttctggct tttttaggaa agttaataa 120  
 tctgaaatat tggttctgca ttagagctga gattaagtcg ttaactttct cctctgtgtt 180

ggatatatag ttttcagtgt gcctgagtc tacatttcag tttgtgatat atagtcagac 240  
 tgagtgaagt gatctcttga tatttctttt ggttctacaa tttaaatatt cttgaattag 300  
 aatttaattt ttctctctag aaaagcattt tctatacttt gctctgtaga acaatgcttc 360  
 tacaaaaggg taacagatga caaggtcttg acggtcaa ataaattggaa atgctga 417

<210> 34673

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C12

<400> 34673

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 aatgctatgg tacctatgtt gtatattatt gtaaaattat tacataattt tagtaaatca 120  
 tgggggtgacg atttgattat tacattttta gttttcagta attaaaaaga tttctgtgaa 180  
 ttcttaaaaa aacaaaaaga aaatcattga attactgtta cctggcacia atttgctata 240  
 aaatctgect ggggtggatga cccgatgca tgcattgggt ttgagggcta gttagccatt 300  
 ccattgaact tccatttgaa agatatgagc aagctttgtc ccaatccatc aagggagtct 360  
 gtttccaacc actcatatac actgaattag aatatac 396

<210> 34674

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C2

<400> 34674

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 ggtcacaaaa agtcagag 78

<210> 34675

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A8

<400> 34675

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tacttatata agagtcctag agtatgcaac tgggtgaaacc agaggctaca atccagtatt 120  
actgatacga gacatgtatg attctccact gttgtacatg tatgagcttg gagtactgta 180  
tactttaaca cactcaatac taggtagtgg agagtacact gatgtacatc ctaaatagcac 240  
cactctgtta acattttaga tgaaagtaca ccgagctccg atataggcta ctccagataa 300  
cgctgcttaa ttgacactcg tagcttatgg taaatagttc ttaagaagtt caaggccact 360  
aataatgtat agtacaagta cgcgctt 387

<210> 34676

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C3

<400> 34676

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tgccaagttg gatgagttac aagctggaat caggattgca gggagaaaata gcaacctcag 180  
acttgtggat gatatcactc taatgacaga aagcaaagag gaactaatga gacccttgat 240  
gaaggtaaag gaggagagtg aaaaagccca cttcagactc aatttgaaaa aaaaaaaca 300  
naaaacaact aatatcaagg catccggtcc catcgcttca tggcaaatag aaggggaaaa 360  
ggtggaagca gtgacagatt tcctcttctt aggctctaaa atcactgggg attatgact 419

<210> 34677

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A1

<400> 34677

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atgctaaagc tcaaagtcca atactttggc cacctcatgc gaagagttga ctcatggaa 120  
aagaccctga tgctgggagg gtttgggggc aggaggagaa ggggacgaca gaggatgaga 180  
tggttgatg gcatcaccga ctcaatgggc gtgggtttgg gtgaactcgg ggagttggtg 240  
atggacaggc aggctggcg tgctgcgatt catggggtcg caaagagtca gccatgactg 300  
agcgactgaa ctgaaccgag cctcagtttg caaagttaga cagttgaaa tgcaagttta 360  
gatcccaggg tttctgactg gaaacttgat atct 394

<210> 34678  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-001-Q1-K1-A10

<400> 34678  
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tgcacagcgt gaaccgggtg gcccacocca gccacatgct cagctcccag cagttcctgc 180  
accgaggtca ccagccaccg tctgagatgg ctggacacag cctggccagc tcccaccgca 240  
actocatggt tcccagtgcg gcgacctca tgatcgagga gtgcgtgggc tatctggtgc 300  
tcatggtcat gctgggtctc gtgcgcattc actgactgca ccgccgcgtc tcggaggcca 360  
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c 421

<210> 34679  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-001-Q1-K1-A12

<400> 34679  
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tgcgtccagt ctactcttgg gcctgttgaa taaatttctc atcgccaaga aagtgtttta 120  
tttttatttt taatttctag cattccttac actctaacc tttcctctgc gccctgttcc 180

tcacagccgg cctgcagcat ccctggcacc accctacccc caggtacctg aagtttagca 240  
 tccagcatgg gccacatgac cccatcatgt cgggtgtgctt gccagcaac ccctgggtca 300  
 cagacgacga tgcctactgg gccatgaacg ctcccaggtg agcaggtcgg ccaaggggtgc 360  
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<210> 34680

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A3

<400> 34680

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 ggaggccatc caggccgtgc gcgacaacaa gctgcacgtt ttcattctgg actcggcggt 180  
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 catcctcaag tcccacgaga acggcttcat ggaagacctg gacaagacgt gggttcggta 360  
 ccaggagtgc gattcgcgca gcaacgcccc tgctaccctc accttcgaga atatg 415

<210> 34681

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A4

<400> 34681

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 ttttcatttc atttagtttg aggtccccta agagctgctt cctttttttt tccccgtctt 180  
 gttctctttg tgagagactt tgaaggccaa gttctaagga aataaagagt aatttagatt 240  
 taaagatggt taggaggcgg ttacacaaag aaaaagtata tgagctacaa acaaactctg 300  
 ccccatatgt gcgggtctttt attttctgag agactgctgt gaatcccatg gtactccagc 360



tcacattctg ttgacatgta tgtcagcagg actgggtttt gtcgtcacgc gtgcctggcg 420  
tc 422

<210> 34682  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-001-Q1-K1-A5  
  
<400> 34682

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tccatgaccc taactgagcc tttgcttagt tttcaggaag aattgctatc ctttaaatac 120  
taccctacaa aactgaacaa atcactgtcc atatctttgg gacagtctcc tttccagata 180  
ggccaggaca aggatacata catttcactc atttatcaca tgaagcagta tgtcatacca 240  
gaaaaacatg gcttaagaat caaaggagac ctgaattgta gttttgccac cgggtcccat 300  
tatctcttca ggcaatttcc tcagtttctc tggatgcaga ttccgcattt ataaaaggga 360  
tagtcagacc ctattggtaa gattctgtaa cttggtaaaa atcatatgcc aaacacc 417

<210> 34683  
<211> 423  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-001-Q1-K1-A6  
  
<400> 34683

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tactaagtta gacatgtcag cagatgagct cgctatatct gtccctacaa cctgcctttc 180  
agatcgaacg ggacagagat gcatacattg aagtcattta tgagatcaag cagtatgtca 240  
tacgagaaca acatgcttaa ccaatcacag gacacctgaa ttgaagtttt gccaccggtt 300  
cccattatct cttcaggcaa tttcctcagt ttctatggat gcatattccg tattgataaa 360  
agggatagtc aaaccctatt ggtaagattc tgtaactggt taaaattcat atgccaaaca 420  
ccc 423

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 cccagccct ctggggccca gccaggcagg gtgagggggc atctctgcca atctacctca 180  
 cggggccaca ctctgccggc catgccatgg atcatggggc gggaaggctc tgggggcaga 240  
 aacaccactc cctggtcacc ctctcaccac aactggccc acagcagcca gaggggtccc 300  
 ggagaagagg gggcagggag gagggcttgg ccccttcatg gggaaggaaa ccagcacgcc 360  
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 gga 423

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 <213> Zea mays  
  
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ccacctgggt cttcaccccc aaggttgtag cttttatggg agcaggggtg gggggcggag 180  
 ggctgctgca gatatgcacc agcctgggat accactatcc accagacctg ttctgacgtc 240  
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<223> Clone ID: LIB3068-001-Q1-K1-D8

<400> 34687

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 cggagggcag tggagggcac cccaggaacc ccagctccta cagcagtgtt aaaaccctc 180  
 cttcagaggc actggatagg gcgtggcccg tgacagccag gggccactcc actggctttt 240  
 ggtgcccact gacccttttc agcagagaca caaaggcctc cagaggcacc aaggaggcag 300  
 gatgggctgg gcaggtggaa agactggtag tttctcaccg aggctctgtc tctggcctcg 360  
 atctcccc 368

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 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E5

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 ttcctcctcg ttaaaagtaa ttctgagctc acaggatcga tttaacattg tttagcctac 180  
 tggagcaaaa ttcctgatgc aggaaatgtg tcaggctctg ccaaagtgat cggaatagaa 240  
 cctatgctaa ccttcctata agcagttacc tgtgggaatt atgcaaaaaa tcaatctcaa 300  
 ctcagggtga aagactcctt tacgcatact gtattagtta ctaaagtatc tgatatctac 360

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390

<210> 34689

<211> 145

<212> DNA

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<400> 34689

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tggataatga aaaaaggaac cccaacaaaa ccacacattg tattcaaaaa acaacggggg 120

cccataaagc ggaaaaaaca tcacg 145

<210> 34690

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F9

<400> 34690

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cgggggtcgg cactggggca agttctacat gcctgagcgc gtgtagtgag gctcaggagc 120

aggaatccgc gccttcgtgc ccctgagcca gtccttcggg tctttgggta cctctgatgt 180

cataaccgac gagcagcatg tgaacagatg ctctgaaaaa ctgtacgtca cctgtcggat 240

tcttttaagt acattatatt aaagtttgag cgttagctca aaatgaaaag actaatagac 300

gaaataaaca ataac 315

<210> 34691

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G2

<400> 34691

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tcagtacaat tctctgttgc ttaatctaga gctatgcaca ccaaattgct gagatattta 180  
 gtagctgata aagaaacctt taataaaaaat aatgtaaata aatgaaatat agataaaacta 240  
 tgagataaat atcattacgg catgtaatat taaattcctc ctgtctcctc tgtcagtttg 300  
 tgatgtgatt gacattttgt agctagggtta aaattattaa aaattataga ccccaaaaata 360  
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<210> 34692  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H5

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 cacaaccccc cttaggatga aaatgaggaa tagtcaacgt aacgccccaa cgtgggtcctt 180  
 taatccccctt ctaattctga atatttcgcg tgggtttact ataatgtcta ttaatacata 240  
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 tcgc 304

<210> 34693  
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 <212> DNA  
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<223> Clone ID: LIB3068-002-Q1-K1-A8

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<210> 34694  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A9

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acaatataaa ctcttctata atatcaccta aattaaattt actttccatc tttttacaac 180  
ttaattttctt ttaaaacctt ttctttaccc aacttaatcc ctttgcaata catccccttt 240  
tcttcatttt ccttaat 257

<210> 34695

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B11

<400> 34695

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gaaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaaataa aa 102

<210> 34696

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B12

<400> 34696

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gttctacccc acctattgct cctccggctc ggcagacacc tctgactcgc tcttctgtga 180  
caactggatg ctgcccgtag agacagccaa cacaggcccc tgaatctcca taccctcgcg 240  
ctgtggagct tcccccaaca ctacatggac agacctcact acacatatga ctctccgctc 300  
acctacgccg acgccctaac cttcacctcc aa 332

<210> 34697

<211> 301

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C5

<400> 34697

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 ccacaaatgc atggatgggt acatggatgg atggggcaca ccaactctat gatcgtatcg 180  
 accgtgcgac attgtatggc aatgcacggc ggcgggcgca ggagcgatcg atcgccaccg 240  
 tagtagcgcc tagccttgtg atctcaaata tgaacgattg tgactgactc tatccttctt 300  
 c 301

<210> 34698  
 <211> 115  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E4

<400> 34698

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 agaaaaaata agaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 115

<210> 34699  
 <211> 51  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F6

<400> 34699

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<210> 34700  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-D2

<400> 34700

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gaatcataag aaaccctagg acttgaccgc agccccttgc gcctacatgt atgcgagcat 180  
tctacttggc agttcttgta aataatataa ccatacagta acttagcatt caaaatatat 240  
aatgttatgg tattgaaaag aatatggcac gtaccattgg ttgaaa 286

<210> 34701  
<211> 83  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-G10  
<400> 34701

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aaaggaaggg ggaaaacaat ata 83

<210> 34702  
<211> 263  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-G5  
<400> 34702

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aaaaaaaaaa taaaaaaaaa aatgttattc cattttaaag atacaatatt aacaatcctt 180  
atattccaaa tataaatatt ttttttttgt tatttttaa ttaattaatt gccctttttt 240  
ttaaaatttt taaattttga aaa 263

<210> 34703  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ccagggctgg cggcgccggc nncancang gcatgtggag catcatcacc cggcccatgt 120

tccagagcat gctgagccac cgcggcgaca gcgggtgcca gggcgccttc tacaccta 178

<210> 34704

<211> 105

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-H7

<400> 34704

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tttttataaaa ctttttaact tttaaaaccc tgtctttacc caact 105

<210> 34705

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E10

<400> 34705

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aacggagggg tagtttcaac gatatgcaat t 91

<210> 34706

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B8

<400> 34706

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agaaaaaaaa aaaaggaggg gaaaa 85

<210> 34707

<211> 452

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-C11  
  
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 gctaattggtg gtgcataccc tccggacctt agtctcatca caaatgcaag gcacaatggt 180  
 cagaactatg ttttcgctct tcttactgga tatcatgatc cacctgctgg tgttcagatt 240  
 cgtgaggggtc tgcactacaa tccctacttc cctgggtggg ccatagccat gcctaatatg 300  
 cttaatgatg gagctgttga gtatgatgat ggttcacctg caactgaagc ccaaatgggt 360  
 aaggatgtcc tatcattcct ttcgtgggca gcttaacctg aaatggaaga gaaaaaactg 420  
 atgggagtgga aatggatctt tctactatca ct 452

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 <211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-E5  
  
 <400> 34708  
  
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 tgttgtgagt tgtgacgaac aaaaagggt gtgggttggg gtggtccggc gcaccgggaa 180  
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 ctat 244

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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-006-Q1-K1-F7  
  
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aacc

64

<210> 34710  
<211> 60  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-006-Q1-K1-H10  
  
<400> 34710

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<210> 34711  
<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-007-Q1-K1-A2  
  
<400> 34711

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ccacaaccaa agccagagcc taatccagaa ccaaaaccag agccaaagcc agagcctaag 180  
cccgaaccaa aaccagagcc aaagcctgag cctaaaccgc aaccaagacc agaaccagaa 240  
ccaaagccag agcctaaacc tgaacaaaaa ccgaaaccag aaccggagcc acaaccaaag 300  
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<211> 317  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-007-Q1-K1-A8  
  
<400> 34712

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cttctataat atcacctaaa ttcaattctc tgccttcat ttacaacat cttttctttt 180

aaaacccttc ctttacccaa cttaatcccc tttcaacaca tccccctttc accagctttc 240  
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<210> 34713  
 <211> 292  
 <212> DNA  
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 <223> Clone ID: LIB3068-007-Q1-K1-B1  
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 attccctcct gctgacatgg ggtgttggtta ttgcgacaaa tttgtgcttc tatccgccgt 180  
 ggtcgacctt ttgttcttgc aatgaggaat tttcgtgac aattgatgca acatgatatt 240  
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<210> 34714  
 <211> 180  
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 <213> Zea mays  
 <223> Clone ID: LIB3068-007-Q1-K1-B2  
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<210> 34715  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-007-Q1-K1-D4  
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attctttgtt ttaattaaac tgtctgggtc ccggtgtccg ttccaggtct gagtcgggtg 120  
 ttctactccc ggggaaggcc cctactgggt ccgttcctct tccgtcccca cgtccggtac 180  
 tcttcgtacc gctttctcct ttctagcagc tcgaacattc tctcagcatt caacgggttc 240  
 ggtgcctata cctcctgtcc caacctcat agcctatcct tttcccgaag ttacagatcc 300  
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<210> 34716

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E12

<400> 34716

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 attcacacat cattgttaag caagtaattt ttattactca taattatata ttgatgtcat 180  
 cattgttact taaacattca 200

<210> 34717

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E3

<400> 34717

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 atgagatgag atccattgaa gccgacagcc gaaggttggg tgtaaaatat ggagtccatg 180  
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<210> 34718

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E6

<400> 34718

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gcgatgcaat tgcaatgcaa gc 82

<210> 34719

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E9

<400> 34719

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gtgtacaagg ggaagaagat gcccgggagg atgggaggaa ccaagaccaa gatcaggaag 120

ctcaagattg tcaagatcga caacaacctc cgggtgctca tgatcaaggg ggccgtgcca 180

gggaagcccg ggaacctcct ccgcataacg ccagccaaga tcgtcggcaa gaacatcccc 240

aagaactaga cttctttttt ttcagggggg tgaatgttga gtgtttgtgt ttgtttaccct 300

gctacaaact ggatgtaatc ctttgccaat ttccagtttt tgaacacatg caacttcaga 360

ttagtaaaac tataacctgt ac 382

<210> 34720

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A10

<400> 34720

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taggatatga taacgaataa agtgcagaaa aat 93

<210> 34721

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B4

<400> 34721

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<210> 34722

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C10

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tcgagggcgg gcccgccgcg ggggcgtgcg gctcggggcg ggcttggagc gcaatnnngc 120

acggggccctt tggnnngcgc gaacgcccn ntaacgtggg nntcggggcg ggcgaaacga 180

gcagaggggc gccggttggc ttagcttggg attctnngga cttagagnng cgttcagtca 240

tttaatccgg cacaacggta nngcttcgcg cccactggct tttttcaacc aagcccgcga 300

tgaccaattg gtgtgaatca nnacggttcc tctcgtacta ggggttgaat taccttatcg 360

cggcgcggtc at 372

<210> 34723

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C3

<400> 34723

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<210> 34724

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E9

<400> 34724

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<210> 34725  
 <211> 74  
 <212> DNA  
 <213> Zea mays  
  
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 agaaaaagaa aaaa 74

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 <213> Zea mays  
  
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<210> 34728  
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 <212> DNA  
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acaaaatagt gcttgtagt tgctgaattg tccatttagg caacaaagtt ttgaaaacc 120  
acaatatatta aaatactaaa taaaaaaaga aaaaataaat gaattt 166

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<212> DNA  
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<223> Clone ID: LIB3068-009-Q1-K1-C8

<400> 34729

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atactaccac ctattccatg aaaactcgag tggagtggta agcaacaatg gtgatccctt 180  
gttttggggg atctttctgt acacgtgtaa ttatcgttaa ctcagttgtc tatctatagg 240  
cccatttcag cttgagtttt atggataact cggcgatcta tataggctca gtcacctgc 300  
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tatac 364

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<212> DNA  
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<223> Clone ID: LIB3068-009-Q1-K1-D3

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aaatttaatg atgacggcac 80

<210> 34731  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34731

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cctgaccacc cacanaccaa taantttcta ncttgccacc aaattcttcc gggagttcaa 120  
aataagcata tatcccgata ttcccaaata ggtcaacctt ttttaactgcc tgctgaatcc 180  
atgagcaggc tagagacaac ctggcgaact taaacatctt attagccaca ggaaa 235

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-010-Q1-K1-A10  
<400> 34732

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<210> 34733  
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<212> DNA  
<213> Zea mays  
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tcctcatcat tccccccaaa cccaaccttt tagccaaaaa cacattcatc gcacagctta 180  
ctatccacca cataacccaaa atatccataa aaatatagct attacactta caccctcaaa 240  
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cacct 305

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<223> unsure at all n locations  
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catgagcgat ccaccttcag cgcacaagct taaatctccg acaggctctt cttctggaga 120  
 tgggtttgat gttatgactc tagccacaga tcagcctgct ggaccagttt cagcaacgcc 180  
 taaggtagct aatgccagag atgatgataa gttcaatgat ggcattgtac aagacttgtg 240  
 tgtagatgat gctgacctta cattcgagga ttatgaagag ctatttggtta cctctcacat 300  
 tcgaacagag gaactctntg atgacgctgg aattgacggt tacttcgaat tgaaagagac 360  
 accacctttt tatttcaacg agcagcccaa agctatgcag atagaatgtg gcaacgtggt 420  
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<210> 34735

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D4

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 gcaacactag ctacttttag gggtcgacca caaacaaaat aaagcgcgct gtcaagcttg 180  
 aagaaatgag aaactaaggg tggtagtagc gtactatata gttagctatc actagacctc 240  
 aacttgatgg agaaccaccg ggatgagctc atcagtgtta gtgtggagaa tagttgcagg 300  
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<210> 34736

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F4

<400> 34736

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 aaaaaataa ttaagagaaa aagtgagaca t 91

<210> 34737

<211> 84

<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-010-Q1-K1-F5  
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 agagaaaata aaaataaaag aaag 84  
 <210> 34738  
 <211> 55  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-010-Q1-K1-F8  
 <400> 34738  
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 <210> 34739  
 <211> 71  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-010-Q1-K1-G8  
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 gaaaaaaaat a 71  
 <210> 34740  
 <211> 74  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-010-Q1-K1-H8  
 <400> 34740  
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 actacctttt aaat 74  
 <210> 34741  
 <211> 58  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3068-011-Q1-K1-A8  
 <400> 34741  
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<210> 34742  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-012-Q1-K1-B7  
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 aaatgtattc gatagacacc cagaagcaga aggtaaaata agagggtactt tattgcttac 180  
 tctatctttt atggaagcta taacaattta tggactgatt gtggcactag cgctttttatt 240  
 tgcaaacctt cttgggttaat cctagtgatc aaacaaccac aatatgaacc actt 294

<210> 34743  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-012-Q1-K1-D2  
 <400> 34743  
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 tcatgagtgt gccactacat gtgctgctgc tctgagctct ggctgcaaca atggtgggta 120  
 acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180  
 gccaaactcta tggggcctgg tgacggtgct tggtttatgg aatgggatgc agctgcgcag 240  
 tcgatatgga tcagcaccgt gacttgtatt tgtgctgtac atcccggccg ttgtacatga 300  
 actaactgta ccctgtgacc tcaccttgtg tacataaatg gtcttttattt attggaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatatataa 409

<210> 34744

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-D7  
  
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 gagagaataa cgcagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat 180  
 ttactagtgt gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat 240  
 ggtattgcaa ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaaggaaaa 300  
 aaggcttcta cttctaaaaa aaaaaaggca taaaaaagca caacgcccaa gactctatgc 360  
 tcaaac 366

<210> 34745  
 <211> 65  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-E3  
  
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 gggag 65

<210> 34746  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-012-Q1-K1-F3  
  
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 cgcgaaaacc ctagcagctc cgtagtcctt ctctctgga ggtattcgca gtcgaccgtg 120  
 tcctcggagc acgatgaagg ttgttgctgc ctacctgctt gctgtcctcg ctgggaatgc 180  
 cagcccctcc gctgaggatt tgactggcat tctggagtca gttggctgtg aagttgacaa 240

tgaaaggatg gaactgctgc tgtcccaact gagcggtaag gacatcacgc agtcattgc 300  
cgcgggcaga gagaagtttg cttcagtcgc atgtggcggc ggcggtgtgg ctgttgcggc 360  
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<210> 34747

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H4

<400> 34747

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tcgggcttaa ttagaagtcg gacagccaca ccagcaagt ctctaaatca tactacgaat 120  
cacatcctga cttcctctac atgaaagcat acgtagtgc cacctattgt tttcttctca 180  
gcggacccaa tgagtaacta caccatgtta cgaataaaag cgagggaaaa tcggatgagc 240  
aacttttgca gctatatgaa atgcactttg aaaaatcacg tcttgaggac gaaaaacacg 300  
ataaaatgga cttgcctact tttgcaccga ataaactcat aagtaatcca atttccgagg 360  
acacgaacgg aagtaagctg attttggat tcgtatcgga attagccaga agaagaaacc 420  
atgttcaactg cccttcattc tctggcctga ctgcctta 458

<210> 34748

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B12

<400> 34748

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accgcagagg ccgcctccc ccggtctacg gcggctacgg ccagccaccg ccacccgacc 120  
cgtacggccg cgcgcccgtc gaccccgatc cgtacggctg acctccgccc cagtccgctg 180  
acggtggggc cggggacgcc tacggccaca gcggccaagg ctacgcgccc ccgccggcct 240  
acggcgccgg gggcggttac ggcaacgtcg tccacgtcgc gcacgaggtc ggcgacgaga 300  
ggccttacta cggcgggcgc ggcgggcggtc ttggtggcgc ctacggaggc ggtggctccg 360

agtacggcca cgagggccga ccgcaccacg gcggcgcg atcccagtac ggccacgaga 420  
cacgcccga cc 432

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-013-Q1-K1-B8  
  
<400> 34749

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<210> 34750  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-013-Q1-K1-F1  
  
<400> 34750

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cgcatgcata caaaataaaa aaggctacta taaaatcacc taaaatacaa ttcaatgacc 120  
gtaca 125

<210> 34751  
<211> 433  
<212> DNA  
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<223> unsure at all n locations  
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<400> 34751

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gagctactaa aggcacaagc cgacatatgg cggctcagcc tctcctacct cacgcccctg 120  
tcactgaggt gcgccgtgga gcttggcatc cccacggcga tctaccgcca tggcggggct 180  
gcctcagccg ctgagctggt cacggcgctg tctctccctt ccaactaagct gccgttcttc 240  
cgccgcctgc tgcggctcct cgccgcgtcg ggcgtgttca ccgtcgacaa gcagagcacg 300  
gaggaggagc ggtaccgcat cagccccgtg tctacctcc tgggtggacgg catccctcac 360



gaggaccaca tgaaccacac cgctctggtg ctcacctgca cctcgacgcg ctacatcgag 420  
gcggngatag ggc 433

<210> 34752  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H4

<400> 34752

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tgcaatgcaa ttattgagat ttcgaatcta aaaaaaaciaa aaacaaaaaa aaaaacagag 180  
ataatcacia agacaagaaa taaaatgaat atcaaaaaaac taca 224

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<211> 92  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B12

<400> 34753

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ggcaagatat atgtatgaaa tgaataaata tt 92

<210> 34754  
<211> 68  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B4

<400> 34754

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ggaaaaga 68

<210> 34755  
<211> 449

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-E10  
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 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcg cttctacacc 180  
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 cagacgcgca ggcgggagct cgccgccttc ttcggccaga cgtcccacga aaccaccggt 300  
 ggatggggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360  
 aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420  
 tacaggctcg cggggcaagc gctgaacct 449

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 <223> Clone ID: LIB3068-014-Q1-K1-E11  
 <400> 34756

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 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcg cttctacacc 180  
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 cagacgcgca ggcggttagct ctccggcttc tatggccaga cgtcccacga aaccaccggt 300  
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<210> 34757  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-014-Q1-K1-F4

<400> 34757

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acagacagta gattgctgct acgctcttct ttcgggttca atctgcgaag caaggcgtct 180  
gatcccgttg aaccggacgt ccctaagaag ctaaccaccc cagcgaatcg agaactgact 240  
cgttcgccgg cagcatgcaa atcataggcc gagcgcgccg agcggcgtct tgcctgccc 300  
ggcctcgaag tagaaggcga gcatggcaag catggcgatg cgggcgtgct tgatctcggc 360  
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<210> 34758

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G4

<400> 34758

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<210> 34759

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H2

<400> 34759

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<210> 34760

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B10

<400> 34760

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cgacagcgac tgagatctgg tgcgcagca caggtgcaac acaagtatgc ttgctggatg 120  
gaggattcat accagctgat gctgatgtag tgtttcactg gtgtcatgca tgcattgtatc 180  
gtgctattat aatcaaaaag aaaaaagaaa taacagtcag ggatgggttg tttgcc 236

<210> 34761  
<211> 58  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-015-Q1-K1-B11  
<400> 34761

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<210> 34762  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-015-Q1-K1-C4  
<400> 34762

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ttcatgcggg gcgaagcact tgggtctctgc cgtctgaacg ccgtcggaat ctgcgaggcc 180  
taccagagct gcgtccgtcg tcagataagg cagccgccgg cacggcaatg ccggatccgc 240  
ttgtccgta ccagctcct ccggcgccat tcacgcgcgc caatggggcc cagagccagc 300  
tcgtctgcac cgggtgccgg aacctgctca tgtaccc 337

<210> 34763  
<211> 79  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-015-Q1-K1-D11  
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ggaaggggaa acatgaaac 79

<210> 34764  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-E3  
  
 <400> 34764  
  
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 aaagaaaaag ggcaaccaat ctataggata ccaaacttac atacacttac atgcaacata 120  
 atagctcttt tatagtgtca ccttttttca att 153

<210> 34765  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-015-Q1-K1-F2  
  
 <400> 34765  
  
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 tatatcaagc atgttcagtc ttcttttggt gaaaagttgg ctgcgttgtg ggggtatgat 240  
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 aagcaa 306

<210> 34766  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-016-Q1-K1-A11  
  
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 gactgggcat ctccccccac cattcttggc gagatcctca tcgatgttac tggctggttt 180

caaataacat cctgtaataa aatttcttct ccaaagtaaa aaaaaagatg aagaaggtac 240  
acgaagacaa agaaaaacaa acaaacc 267

<210> 34767  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C5

<400> 34767

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atagcacacg cattggcaca acatcgaggc gggcgctgcc gtgatcactg ccctattcac 180  
tgccaactat gaattcaacg agcacgacga caagaacgcg gccaaagacg cggcgaagga 240  
cgcagacgcg gaccacgact ccgaccgtaa caaggagtgg cacaagaagc accgatcggt 300  
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<223> Clone ID: LIB3068-016-Q1-K1-E3

<400> 34768

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acatgggcta gcggaacgca gcacgagaac gaatccacag gagggtaaaa aaaaccgccg 180  
ctgctccttt gagaggaggt cgggccatca gaagagtgc gaggcgatcg cggagaccac 240  
ggcgagcgcg acg 253

<210> 34769  
<211> 386  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-C5

<400> 34769

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atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180  
tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240  
cagacgcgca tgcgggagct cgccgctctt tcggccagac gtcccacgaa accaccctg 300  
gatggggcgc tgctccggat ggaccgtttg cctggggata ctgccgggtg aaggaaccag 360  
aacagacgga cccaccctac tatgga 386

<210> 34770

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F1

<400> 34770

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taaattcaat tcat 74

<210> 34771

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F8

<400> 34771

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tggcaactta caaacacatg catgcgaaat caatactctt ctatattgtc acctaaatta 120  
aatt 124

<210> 34772

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H1

<400> 34772

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ttataaacgg gccagccaa actccccacc tgacaatgtc ttcctccctg atcgggccctt 120  
ctaagccgta ctttttatcc aaaatgaggt tctgttcccc gcttccgacc caccgaataa 180  
gtaaaataac ttttaaagta ctgttatctt acttgcacct ctaagctctc acttattcta 240  
cacctttcaa gtcatttcac atattccaac tatagttcag ctcaacattt tctttttttt 300  
cacttatctt cctaacccc tttccctttg ctttggtttc tct 343

<210> 34773

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H12

<400> 34773

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa 90

<210> 34774

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C1

<400> 34774

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<210> 34775

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C10

<400> 34775



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 tggccataat ttacaagaac attctgtagt attagtaaga ggaggaaggg ttaaggattt 180  
 acccgggtg agatatcgca ttattogagg aaccctagat gctgtcgcag taaagaatcg 240  
 tcaacaaggg cgttctagt cgttgtagat tcttatccaa gacttgtatc atttgatgat 300  
 gccatgtgaa tcgctagaaa catgtgaagt gtatggctaa cccaataacg aaagtttcgt 360  
 aaggtgactg gagcaggcta ccatgagaca aaagatcttc tttctaaaga gattcgattc 420  
 ggaactctta tatgtc 436

<210> 34776  
 <211> 71  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-E5  
 <400> 34776

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 gaagggaaaa a 71

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 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-F6  
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 tattacctca cttattttca ttta 144

<210> 34778  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-018-Q1-K1-G7

<400> 34778

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aagg 64

<210> 34779

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H1

<400> 34779

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ccgccttaaa ggacccatgt ttacgtccgc gtcacatcaa ctgcatagct cttcgaatag 180  
ggtctcctaa gttcaataca cgggccact 209

<210> 34780

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G6

<400> 34780

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gttcacttg gca 73

<210> 34781

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B12

<400> 34781

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gggagtccta tgcaagccca attatctcat ggacacattt aaaaatgaat gcatattttt 120  
aatgaataat gggtcaaaaa ttaaatt 147

<210> 34782  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C1

<400> 34782

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tgaagcatga gggcgtcgat taatcgcccc ccgacgccga gcgcggagga ggatcgggag 120  
cggcagcctt ctctcggaga gatcattaac atcaagttgg tagagactgg ggagaaggag 180  
aagctaattg agctactccg cgagcgactc gctgagtgcg gctggaggga tgagatgaag 240  
gcactctgca gggcatatgc aaggaagaaa ggaagaaata atgtgacagt agatgacctc 300  
attcatgtta ttactccgaa aggaagagca tccgtgcctg attcagtga ggcagaactc 360  
ctgcaacgca tccggtcctt ccttatgtct accacacttc ggtagtcatt tgtcgcgtcg 420  
gttggagcct atatgtaaga tcattgggaa gtcgatac 457

<210> 34783  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D7

<400> 34783

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gtacatgaaa aggaagggat agaggttgtc catctagctt ctggacgtac aatatgcaag 180  
cttcatttaa atgaaggagg cttcatgct gatattaatg gagatggagt tctggatcat 240  
gttcagggtt ttggtggaaa tggattataa gagcagactg ttgcgagtgg atcaatggaa 300  
gtgctgtacc ctgttgggca atcgctacat ccggtgtgcc agtcgaggag caacttttta 360  
acgtctctat ct 372

<210> 34784  
<211> 369  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E1

<400> 34784

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acacacatag aaaatggatc aaatttgccg gcgacaccaa caagcctgag atcactgctt 180
ctctatccta ccagagatct aaagaacagc atgacattat acagataggt tcatgacaaa 240
gtaacaagac aggagttgg gagttgcatg gacagggtaa gtagtaatac actgattaat 300
actccagtta cgacagttca caggcaaacc cccttacact ctgataagca tggcatgagc 360
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<210> 34785

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E4

<400> 34785

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<210> 34786

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H1

<400> 34786

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gatgtcccag atcctagaca ccggcctcga ccgccacacc ctgtcgctgc tcatggcgct 120
ttgcgaccgc ggagccaacc ccgaggcatt ggccgcctc gtccgcgagc tctcctctgc 180
tgctcccca acctccgccg cggcttcctc ccccgtagc aacggcgccg cggggccggc 240
ctcggaatt gcgccacgt tctcctccgg ccttcgccgt ccctagggtg ctgctaaaaa 300

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gtctgaatgg aaccggtgta gtttttcaag caagacaaga tctcgtctgt ggaatcgctg 360  
gatgaaaaag attgccttta caattccatg tgcgcgctgc tgtgggtggtg tggttcgacc 420  
acaaaacatg tggctggggtt catag 445

<210> 34787  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C9

<400> 34787

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agaggaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 106

<210> 34788  
<211> 108  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D12

<400> 34788

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa aaaaaaaaaa aaaaaaaaaa 60  
ggagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 108

<210> 34789  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F11

<400> 34789

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ttactttcga gttttcgagt aaggaataag atgcctcttg ttgcaatagt gataaagcta 180  
atcctgcttg taattacatt tcgtggaatg gccattccgg caacatgtcc agtaaaaaaa 240  
actttttagt ccataaaaaa cac 263

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-021-Q1-K1-H5  
  
 <400> 34790  
  
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 gcgagcagag tacgtaggta tgaaccgatg tgtgcgcttg tgtctgacta ctctatctat 180  
 gtagcaatga gttgtcagtg tgtgctttga t 211

<210> 34791  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-C2  
  
 <400> 34791  
  
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 aaaacctaca ttccaattca ctgaccatca ttttacaaca tcttaactac taaaaccctg 180  
 accataccaa tcttaatatc cttacatcac ataccctttt tttcagcatc cttaatagca 240  
 aacaatccct aaccgctatc ccttcccaac agttcttcat cctgaatttc taa 293

<210> 34792  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-022-Q1-K1-D7  
  
 <400> 34792  
  
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 ggtattatat ggtacactgc agccagtaat agtaaaaaaa aaaaaaaaaa gacaaaacaa 180

gaacaaaaag aaaaaaaaaa agcaaaaaaa aaaaacaaaa aagagcacat agtaaaaa 238

<210> 34793

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E4

<400> 34793

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agaaaatctg catgacacga ataatccacg tacacggctg tactaaaaag atgatgaatc 120

tgtgggtggct aaaaaaaggg aaatagaaaa gtctggtaat aaaagttggt tctgaacaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aat 223

<210> 34794

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G5

<400> 34794

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ggccacatta ggaaagctgg aatagccttt ttgaactcag atttttttgc taacagtggg 120

gttatgggtga aacaaagttt tgtttgtatg taccaacagc taaaatgtaa acacgacatt 180

atcatagttg agtacaggaa taattatctc tt 212

<210> 34795

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-A6

<400> 34795

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 96

<210> 34796

<211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-023-Q1-K1-E12  
  
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 cggcctaaac actcggtgaa tcatgatctt taattaaaca ctacgctcaa aaccttaaaa 180  
 tcccttcaca tatgaacaac accacctgtt tttaaacctt tcgtacttac tatcatacta 240  
 aatctgcata tctttcccca 260

<210> 34797  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-E12  
  
 <400> 34797  
  
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<210> 34798  
 <211> 409  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-024-Q1-K1-F7  
  
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 gtacaccctt tccccaaagc ctccgacacc taagccgacc ccgcctacgt aactccaag 180  
 ccctaagcca ccggtacca agcctccac gcccaagccg accccgcaa cgtacacccc 240  
 ttcgccaaag cctccgacac ccaagccgac cccgccgacg tacaccctt ctcccaagcc 300



ttcgacgccc aagccgaccc cgccgacgta cactccaagc cccaagcctt ccacacaccc 360  
gacgcccgaag ccgacccac cgacgtacac ccctttccca aagccttcg 409

<210> 34799  
<211> 236  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A7

<400> 34799

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gaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaataa aaaaaaaaaa ggggcgcccc ttttaacggc cccatgttta attccccctt 180  
cttgccccctt tttatTTTTT ttataggggc ccctaatttc aattatgtgc ccagct 236

<210> 34800  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C9

<400> 34800

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atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccaggcgc cttctacacc 180  
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cagacgcgca ggcgggagct cgccgccttc ttccggccaga cgtcccacga aaccaccggt 300  
ggatggggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360  
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420  
ta 422

<210> 34801  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D9

<400> 34801

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gcatctcgat ccacatcggc caggccggta tccaggtcgg aaacgcgtgc tgggagctgt 180  
actgcctcga gcatggcatt caggctgatg gtcagatgcc cggtgacaag accattgggg 240  
gaggtgatga tgctttcaac accttcttca gtgagactgg cgctgggaag cacgtcccc 300  
gtgctgtttt tgttgacctt gagccactg tcatcgatga ggtgaggact ggcacctatc 360  
gccagctctt ccacctgag cagctcatca gtggcaagga ggatgcagcc aacaacttcg 420  
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<210> 34802

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F4

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<210> 34803

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G5

<400> 34803

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aaaaaaaaa aaaaaagaaa a 81

<210> 34804

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G9

<400> 34804

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gcgggagaac aaaaaaagaa t 81

<210> 34805

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A2

<400> 34805

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agaaaa 66

<210> 34806

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-B7

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gtgtgctgcc atccgtcccc gttagacgat cgaggagaga ataacgcaga gctctctgct 120

cccggcctgt cttctgccgt cccggccggt taatttacta gtgtgttcgt cctatatggt 180

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accataataa atgtgggcaa atatgcaaaa naa 273

<210> 34807

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 taagccaggc gtcgttggct taccaaaagg gcgaggagat gtgtgcacgg cagaggaag 180  
 ccgaagcgca tagccatgct ggaccagatg agcatctgta tgccttggac ctggagaaca 240  
 cggaagagga atcgacgctn tattttgatc tcacaccggt ttatcgggcg caccacatgc 300  
 acacatgtct tgggatggag gacaagtta gagactatta ctacaagaac aggctgatgc 360  
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<210> 34808

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-D7

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 aaactggatc tgagttgaag atcttgggtc gtagttacc cagtaccca cctttactta 180  
 gatctgagca tgtaaggtag tctttttgtt tccttctgca attttatgct atgtcattta 240  
 gttgttttta gtttgattga gaagcacgtg aagagtaatt tcggtaaata gagaggatcg 300  
 gtgcttcaaa atggagtagt agtttattat gaccttttga gattccaaat actgtcgact 360  
 ntatgataaa atacttgaaa gttgaaactg tcctttctgg taagtccgta actctttcga 420  
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<210> 34809

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E6

<400> 34809

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 gaggtgcagg tgggtggcttc ggagggtggcg gaggttcggg tgggtggcatc ggtggtggac 120

tctagaggtg gcgggagctc ggcgcgcgca cggtgagtggtc gtgcatgccca tgaaattaaa 180  
aagcgataca tggagtggtgt ggtacggtat ggacattgct agagttacat tacatcatca 240  
ctagtatata taaggttgac tcttatttgt aagcctaataa aaagtgaata attggatgctg 300  
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<223> Clone ID: LIB3068-026-Q1-K1-F2

<400> 34810

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aaaaagggga caaccgatct aaa 83

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C11

<400> 34811

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<210> 34812  
<211> 52  
<212> DNA  
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<223> Clone ID: LIB3068-028-Q1-K1-B12

<400> 34812

aaaaaaacaa aaaaaacaaa aaaggggaaa tggttgaaaa aaataaaagg aa 52

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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34813

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aaatttaaaa aaaaaggcg cccactctaa aaaatccaaa caaaacttac ccctccttac 120  
cacgtcataa ctcttctata atgtcccctc ccttcacttc acttcccgcc gttttactac 180  
atcgtaactc ctaaaacc 198

<210> 34814

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E4

<400> 34814

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ctccttacac aggcatccga ccgtcatacc tcttctatag tagggccaaa cattcattct 180  
actgcccgtt aatttacaac tgacgcgacg tgtaaaaccc tgcgtgacc gaactaaact 240  
gcggtgcaac acatttcact ttcttcaggt ggcgttttat t 281

<210> 34815

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F1

<400> 34815

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cctacgcgtg cgagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aggggggtcg atttaaaaga aaaaaataa aaggcgcgtg catgcgaaga aaaaggtttt 180  
ctataagggt acctaaattt aattgagtgg ccgtgggtta aaaatacaaa aattgggaaa 240

<210> 34816

<211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-F12  
  
 <400> 34816  
  
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 aaaattaaaa aggggggccg atttaaaaaa atccaaactt acatactcct tcattcaaaa 120  
 tcataactat ttttttattt cacctaaatt caatttactt tccccggttt tacaacctcg 180  
 tggcttgtaa aaaccttgcc ttttccaact taatccccctt tcaccacatt ccctttttttc 240  
 cagctagcct aataactaat aggccccgc ctttt 275

<210> 34817  
 <211> 398  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-028-Q1-K1-G10  
  
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 tttcgtcgtt gctggatccg atgaagactc atccccctcca agatctacgt ttgcaatgga 180  
 tggatctgcg catccgctga cttactagtc cgccttgcca acaatgagag atacatggag 240  
 gagcgggagc catgggcggg tgtaaaatct gaaaaaaaag tgggtgagtgt gaatttggat 300  
 ctggtggtga gtgtgaattt ggatgagtgt ggtgtttttg tcccagagtg aaagacacag 360  
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<210> 34818  
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 <213> Zea mays  
  
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 ttgtagtagg gtgtccattg tagcaatggc aggggtgacc gttgcttggg tttgttgacc 180  
 tgcgtagcac ttaagattgt gtatctaaag ttgtaggat tcatgttcat gcgattatgc 240  
 ttggatatac ggagtgcacat cgtggagcat aaagatgact tgtacattcg tcttgttcat 300  
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<210> 34819

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G5

<400> 34819

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 ttattactcc actattcttc gtccacctct tctcctccca tccccatagc cataggacaa 180  
 atattttttt tttaaaaaaa aaggagatta aaatcaaagg aacagcgtaa taataataac 240  
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<210> 34820

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G6

<400> 34820

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 cccacaccaa acaacaaatc actgcctgtc tttttacaac ttacctactg acaaaaccct 180  
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<210> 34821

<211> 122

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B12

<400> 34821

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gaggaaaaaa aaaaaaaaaa aaaaagataa aaaaaaaaaa aaaaaataa aaaaggataa 120

gc 122

<210> 34822

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C4

<400> 34822

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<210> 34823

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-029-Q1-K1-E5

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aggcgatccg ggtaattctc gaataatcaa tgaactgggt aagattgtaa canataaa 118

<210> 34824

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-F3

<400> 34824

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cacctcggac atctggcatc tgggtgcaag gtccatgtcc atctatgaac tctcttcac 120

aaccgacatc gttctgagaa gtctcgccgt gcgaggtcgg ccatagctcg ctccgcttac 180  
aacatagata gcccaactcat ca 202

<210> 34825  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E5

<400> 34825

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gaccgggtgg cgagagaccc cgtggtagcc ttcaagacgg ccatctggtt ctggatgacg 120  
ccgcagtcgc ccaagccctc gtgccacgcc gtgatgaccg gcgactggag gcccttcgac 180  
accgaccgcg ccgcggggag gctccccgga tacggcctga ccacgaacat catcaacggg 240  
ggtctagagt gcggcgagga ccgctccacc gacggcgcca aagccgcca agaccgggtc 300  
ggctactaca agaagtactg cggtatgctc ggagtggggg acgggggacaa catggcatgc 360  
gggagccaaa agccttacgg aggatgatga cactagtagc tgatctat 408

<210> 34826  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G12

<400> 34826

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ttacccatgt tgggtactat ctatgtacta ttattatata caaaactata gttgtcctgg 180  
ctgaattgaa ctcaaaaggg tttgtttgag aaaaaattgt cccaagattg gattgcttgt 240  
taaagctcaa tattgttatt gaagtgttaa aaaaaagtag tctatcccta aaataaaaat 300  
c 301

<210> 34827  
<211> 259

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H2

<400> 34827

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 gagggccgggc cttggagcca aaaggagggg cggtgccccg ctttcgaccc acggaataag 180  
 taaaattacg ttaaaagtag tcggatttta cttgctcccc gaggcttcca cttatactac 240  
 accttttaag gcattttac 259

<210> 34828  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G8

<400> 34828

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 aacggtgctt gttgcggcca gggttaccga atctcctgca cttaccaggc ggaccctcgg 180  
 ttttgaatcc gcggaacgtc ggtgaccata accgccacca acctgtgccc tccaaactac 240  
 gcgctgcca acgacgacgg cggttggtgc aaccgccgc ggaagcactt cgacatggcc 300  
 gagccggcct ggctaaagat cggcatctac cgcggcggca tcgtgcccg tcaactacaa 360  
 agggtgccgt gtgtgaagaa aggcggcgtg aggttcagca tcaacgggcg c 411

<210> 34829  
 <211> 69  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-031-Q1-K1-H3

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gggggggtat

69

<210> 34830  
<211> 127  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H5

<400> 34830

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ataaggggaa aataaaacaa atctaactaa taacaaataa aaataataaa ataaataaaa 120  
actaaaa 127

<210> 34831  
<211> 301  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ttggttactg gaaaaccagt ccggtagatg cgggtttgcy cagaacgatg gagggtttttt 180  
ccctgcacat ttgatgtctc atgttcgcca ccaagtttca aggtttgtac cacaagatcc 240  
atttattaaa aagaccacac agtgagatat ttaaaccatt attgtgacaa attatatatt 300  
t 301

<210> 34832  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D5

<400> 34832

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gttgagcgca tctcttcctt cgtctgcagc ggctgccggt ggcgtttcct cagttccctc 180  
 tgccttgctt ggcttgatgt agagagttat cagattaaaa tatctctgat gtgcttcggt 240  
 attgggtgga atcatgtgtc ccagcagtgc tgggaaatcg agatcaagat gtatctttct 300  
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<210> 34833

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-E9

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 cgattcaciaa gggcgcatct gcgcgcgacc aaacaccgat cgatgtgctg tgcttcatga 180  
 ctgcgtgcac cctacctacc gatgacccta ttccactatt cgctggcctg tatgctcatg 240  
 acatgacctt ttctaggcc ccatgctgca tgtacagact tactaacttt ttcattctgac 300  
 gc 302

<210> 34834

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H5

<400> 34834

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 atctgagcgc ctcaggggta atggatcctt ggcacggagg gccatcaagg atctgatggc 180  
 aaaggggctc ataaggatgg tctttgttca ttctagccag cagatataca ccagggcaac 240  
 caacacatga ggggtgtttt gccgtctggg gaccgtatct aatctaaacg acttgatggg 300  
 gctattatat caagggtaaa ttaatcgggg ctcgaacaat cttactgggtg gggtgaatgg 360

tgaaaatttt tgagattatt gtactatttt aagatcatgt ttttataaca tttaagacca 420  
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<210> 34835  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-033-Q1-K1-C1  
 <400> 34835

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<210> 34836  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-033-Q1-K1-C2  
 <400> 34836

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 tttaagaatt gaccaaagca tcattagggt tcaaaataaa gaaaacccat cctagtggat 180  
 ccgtatggta aggaaaaatg cctaattctat tcacttaaca aacatg 226

<210> 34837  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-033-Q1-K1-D9  
 <400> 34837

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 gagctgctcg cgcggcgaga gcgggccgcc gcgtgcgggc cgggggacgg accgggaacg 180  
 gccccctctg gggccttccc cgggcgtcga acaaccgact cagaactggg acgggtatat 240

caagcaaaaa aaaaaataca aaaaaattat aaaaaaaaaa aaaataaaca ataaa 295

<210> 34838  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E3

<400> 34838

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tggtattgct tatgaatgcg atgttgctcg gacagaactg catttcattt tgtattatgg 180  
ttgttcaaga tgttatatta ccatgagggtg aggtagcttg actgaaaaaa aaaaaaagaa 240  
aaaaaaaaa aaaaaaaaaa aaacaacaaa aaaaaaaaaac aaataataaa taaaaa 296

<210> 34839  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F11

<400> 34839

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ctactagcta atcatatcgt gtgtacgagt atgaaagatg atgtactgtc accaactcac 180  
ttgtgtatga taaaggatac atgataagac tatcactact aaaaaaaca tataaagaaa 240  
gagcataacc aacttaaaat gtaaaaagct aaagtagaag aaaaacctaa gatcaatatg 300  
aataaaaagg acgtcctcat c 321

<210> 34840  
<211> 67  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G1

<400> 34840

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 aaaaagg 67

<210> 34841  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-033-Q1-K1-G5  
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 tattgatgtg aattcctctg ctgaagaaac actgatcaac gttatgaacc catacacaat 180  
 aaccaaccat cgcaagctcc acacaaagge tgatcacaaa catatccttt aagccatcaa 240  
 acttttatagc 250

<210> 34842  
 <211> 62  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-034-Q1-K1-A5  
 <400> 34842

cggactcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggagg 60  
 ag 62

<210> 34843  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-034-Q1-K1-B2  
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 cgggctaaat taaataagct agctacctaa ccatgcatgc atgctttatt attagagaac 180



acatttagac ctgatcgata tgatgatggg tatgtattac ttactacac gcagatccag 240  
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<210> 34844

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E11

<400> 34844

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 gcggaaaaa 68

<210> 34845

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E5

<400> 34845

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 cttacatact cgtacttgca acttcttaga tctcatttgg tgtaccctaa attaaattca 180  
 cttgccgcct ttttacaact atccgactgg gaaaactctg gcgttaccaa acttaatcgc 240  
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<210> 34846

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F7

<400> 34846

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 attcatac 68

<210> 34847

<211> 171  
 <212> DNA  
 <213> Zea mays  
  
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 caattatgca gctgtattgt ctgctaaaaa aaaaaaaaaa aaaagagagc c 171

<210> 34848  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-034-Q1-K1-G3  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-036-Q1-K1-A9  
  
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 atcatcaccg ggcccatggt ccagagcatg ctgagccacc gcggcgacag cgggtgccag 180  
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 accaccggcg acgagcagac gcgcaggcgg gagctcgccg ccttcttcgg ccagacgtcc 300  
 cacgaaacca ccggtggatg ggcgactgct ccggatggac cgtttgctg gggatactgc 360  
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actcataagt acaactacag gctcgccggg caagcgc 457

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<211> 62  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-036-Q1-K1-E1  
  
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ct 62

<210> 34851  
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<213> Zea mays  
  
<223> Clone ID: LIB3068-036-Q1-K1-H6  
  
<400> 34851

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aaacggtaca ttcaaaaaaa taagctagaa tataatgtaa ccataaaatt caatt 115

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<213> Zea mays  
  
<223> Clone ID: LIB3068-037-Q1-K1-B2  
  
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agggcattgg tttcattaag taccgttgaa gagggcactg tgctgttggt gagaacttcc 120  
ttcatgagat aaatgggtcc ttcattagaa ggctaattt atgcgcttta gctatttggt 180  
cataacttga gactcatggg ttaaactcga cttgttaaag ttttgatggc tactttgtgc 240  
tcgaaggacc atctattatg agaagattgc aattttctca ctttataaaa 290

<210> 34853  
<211> 59  
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<213> Zea mays  
 <223> Clone ID: LIB3068-037-Q1-K1-E6  
 <400> 34853  
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<210> 34854  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-038-Q1-K1-E1  
 <400> 34854  
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<210> 34855  
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 cttggagcca cttggacttg gtggttgtgg cagttaaatt ggggtgttca caagtgagta 180  
 atcttttttt tttgtgatga cgcctagcat gtaaaaatgt gagctatgac atactgatgg 240  
 gttacacatt ttgcaaaaaa aagaatt 267

<210> 34856  
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132

<210> 34857

<211> 166

<212> DNA

<213> Zea mays

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<400> 34857

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cgctagggtta tcaagagcgt gaatgataaa accctttggt gaacgc 166

<210> 34858

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<212> DNA

<213> Zea mays

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<400> 34858

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gctgccactg gggctgctgc aaccgcgcct accatggctc ctgtcgggtg tgctctcacc 120

ctgatcatat accatagccc atgtaccgtt ctgagctcgt cgaggaccac atctaaatac 180

taatgacatg cgctgctact atatataccg gtacctatgc actacgtgaa ccacatcaca 240

ctcgtagtac actcgtccta ctagtcaata caagttaagt tccatcacca cgatcatgaaa 300

taaaagtaac gaggttgcaa gcatctctgt gcgtgactga aaacgtcgac tgtatctcat 360

gcatggaata aatttaatag attatgtcca acacgtagc 399

<210> 34859

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C5

<400> 34859

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80

<210> 34860

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 34860

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atcacccggc ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180

gcctttctaca cctacgacgc cttcatcgag gccgccagca agttccccgg cttcggcacc 240

accggcgacg agcagacgcg caggcgggag ctcgcgcnct tcttcggcca gacgtccac 300

gaaaccaccg gtggatgggc gactgctccg gatggaccgt ttgcctgggg atactgccgg 360

gtgaaggaac agaaacagac ggacccaccc tactatgga 399

<210> 34861

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E1

<400> 34861

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cactctgcag aggttgtagc ctttaccac aagtcattgt acccatctgc caaggggtaa 120

cgactcccat acacctctac ctaggaagcg cggcagggca acactacgag gcctttacaa 180

agttccacta gtttccgaaa acccgctaca gtttatggga agagcacttg caagaatctc 240

ccgtctgacc gccatcgag ctaaataaac ccgagaacct ccttgcatgc aacttcccta 300

ctgcccttgc ccctttcggg taaagtagtc ttccactagc tttcctaatt agtc 354

<210> 34862

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E10

<400> 34862

cccacgcgtc cgaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gggaggaaat aaa 73

<210> 34863

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E11

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atgttcacaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180

tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240

cagacgcgca ggctggagct cgccgccttc ttcgccacaga cgtcccacga aaccaccggt 300

ggatggggca ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360

aaacagacgg acccaccta ctatggacga ggaccatac agctaactca taagtacaac 420

tacaggc 427

<210> 34864

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G10

<400> 34864

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tccattccat gcgagcgcga ttgagttcgt ccatccaaca aactacgcag ttattcatgc 120

tacacacagc tcgcgtccca tgcgttcaga atttcagatc cagagctggc aaccctcga 180

tcaaaagaga gaagagggga gggaaaaaag gttcagggtc gacagagctg gcaaagttaa 240

ggagccgtct gccggggtcg tcgtcgtctt ctccctcaa cagaaggacg ggacgacgcc 300

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<210> 34865

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A10

<400> 34865

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agaaaaaata aaaaaaaaag gaaaaaaa 88

<210> 34866

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B1

<400> 34866

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aaaaaaggaa agggatatta t 81

<210> 34867

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B9

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gcattttcag gtggggaggg tggctggcgc ggcacatctg ttaaaagata acgcatgtgt 120

cctaagatga gctcaactca aaatagacag aaatatatac cgtatttgtc actgaaacaa 180

agataataaa aacaaataga tac 203

<210> 34868

<211> 65

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3068-043-Q1-K1-G12

<400> 34868

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ggaaa 65

<210> 34869

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 34869

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ncgagnngga gcacgccggg cgggacccga aagaaggaga accangcccg agcggggcga 120

agccagagga aacacaggag gaggcacgaa gcgacaccga cgagcaaanc gnacgccgga 180

cgngggcaca ggggcgaaag accaaacgaa ccaacgagna ccaggggccc cccgaaggga 240

cccgaggag agcgggagcc cacacgagan caagcggaga aagccaacag acagaggcag 300

cgggggcgca acgcc 315

<210> 34870

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-C10

<400> 34870

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atggctcgca cgcaatctgc cgtagcggtc gccgtggtgg ccgcggtgct gctgctggca 120

gcggcgggcga cgacctcgga ggccgccatc acctgcgggc aggtgagctc cgccatcgcg 180

ccctgcctct cctacgcccg cggcacgggg tccggcccct ccgctcctg ctgtagcggc 240

gtcaggaacc tcaagagcgc cgnacgacc gccgncgaca ggcgcgccgn ctgcaactgc 300

ctcaagaacg ccgncagggg cgtcagcggc ctcaacgccg gcaacgccgn cagcatcccc 360

tccaagtgcg gcgtcagcat cccctacacc atcagcacct tcaccgactg ctccagggtg 420  
aactaaacct agaccacgcg cg 442

<210> 34871  
<211> 344  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 34871

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agcgccctgg atgagcctcg tggagaagca atggctagtc cacggggctc atacttcagc 180  
gctgcagcgc ttggtactcg gacctcggct cgaggcattt tctctacccc ttcttaccct 240  
gaaaaagcag ggtcaccttg tgtccttaaa cctataacca tctttcggct aacctagcct 300  
nctncgtccc tccgtaccaa caaggggtag tacaagaata ttga 344

<210> 34872  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D3

<400> 34872

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gcatcatctt tattgggtct tgacaccctt aagctgctca ttttgtagtg tgaacatggg 180  
gccacttgga aagcatgata aactaattag cattgatgac ccaaataattt ttctttggaa 240  
cgtagacatg tcaaagaaat caactaaggt gatctcacag ggatcagatg acatgctttc 300  
aaatatgagt ggtggggctt gggatccaca caatcataat ttaaattgcg ttaatatggc 360  
gatgcaatca ct 372

<210> 34873

<211> 273  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-E1  
  
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 agcaacagct cagtgaagatt gagaagaaat tagttgcatc aagtgaagaa atagagttgc 180  
 tgaaagagcg tattcaacaa gaagctgctg tatcagcaga aagaggaatg caccttgtag 240  
 aaacaatgac cagtgcagac cgatacaaaa aga 273

<210> 34874  
 <211> 76  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gcccggatcc agagag 76

<210> 34875  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-F9  
  
 <400> 34875  
  
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 aaaaaaaaaa atataatggg gcgggggttt tataagtacc aagctttctt accctttctt 120  
 gcaacattat acttttttta tagttgaacc taaattcatt tcaactggccg acgttttaca 180  
 acttttgtac tggtaaaacc cttgcgtaac ccaacttaat tgccttgaat aacattcccc 240  
 tttctcc 247

<210> 34876  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-045-Q1-K1-H6  
  
 <400> 34876  
  
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 tggtttctac ctgaccgttt cgttatctga tgctgtttct ttaataaaca agagaaaaac 180  
 accacctaaa accatacaaa ca 202

<210> 34877  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-F6  
  
 <400> 34877  
  
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 agtggaacc acccttcgcg ccggccaccg tggaggcgta cgtgagcctg caggtggtgt 180  
 ttggtttgat gaatcatatt cctcaaattt ggtagatgag cccattcata ttagaaattt 240  
 ggtggatgag cctattcata ttagtactaa ctaactatga gaaatgaggt gttgatggat 300  
 caacttatta cattccacaa accaaatgaa aaaaagtgag gagtgagaac tagctcgttc 360  
 atcaaagaac accctataaa agaattgtca ttgacatcag cacctacgaa tcagccacgc 420  
 tcgaagtag 429

<210> 34878  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-046-Q1-K1-G12  
  
 <400> 34878  
  
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atggggcagc taaaaattat aatcgggtaa agtcaatgat tagaggcatc tggagcgcaa 120  
 cgccctcgac ctattctcaa actttaacta cgtatgacgg ctcggtgct tcggagagcc 180  
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<210> 34879

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G6

<400> 34879

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 tttggctaaa gaaaatgccc tggctgagag caaggccatc gacatcaacc cgtttcagct 180  
 catgtgctgc accaactgaa gcttgtactt atcggggctc tacacctgcg accacgctga 240  
 atgggacatg gg 252

<210> 34880

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-047-Q1-K1-A1

<400> 34880

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 aggtgcgccg tggagcttgg catccccacg gcgatctacc gccatggcgg ggctgcctca 180  
 gccgctgagc tggtcacggc gctgtctctc cctccacta agctgccgtt cctccgccgn 240  
 ctgctgcggc tctcgcgcgc gtcgggcgtg ttcaccgtcg acaagcagag cacggaagag 300  
 gagcggtagc gcatcagccc cgtgtcctac ctctgggtgg acggcatccc tcacgaagac 360  
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 atagggt 428

<210> 34881  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-A12  
  
 <400> 34881  
  
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 taacggtgca ttacatggct gtaaaaaaca aaaataaaca aaaaaaaaaa aagaaaaaaa 180  
 aaaataaata aaaaaaagaa aaaaaatagg aataaattac aatatagaaa aagtagcg 238

<210> 34882  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgggtgctgct gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg 180  
 tgagctccgn catcgcgccc tgctctctct acgcccgcgg cacgggggtcc ggcccccttcg 240  
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<210> 34883  
 <211> 51  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-F5  
  
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<210> 34884  
 <211> 267

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-047-Q1-K1-G2  
  
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 tcataacctca ggccattcgg atccttttcca atttcccccc gtctttttttc ccctccttta 180  
 aacagtgtccc cccttcccca ctttctgtttt catcaccctt aaatgggttaa aaaaaccag 240  
 gcccttttttt ttaaccaatc ccccgagg 267

<210> 34885  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-048-Q1-K1-B1  
  
 <400> 34885  
  
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 cgctttgtga ataaaagctg tctcttcatc tgtaaaaaaa aaaaagaaat aaaataaata 180  
 taaaataaaa aaataatata ttatagaaaa aaaataaata aaaaaataaa aaatataaaa 240  
 ataaatatta tattgtttta aaaacaat 268

<210> 34886  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-048-Q1-K1-C1  
  
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 cgctttgaga ataaaagctt tctcttcatc tgtaaaaaat aaaaaataaa aaaaaaaaaa 180  
 aaatgaaata aaaaaaaaaa aagtaataaa taataataaa taaaaaaaaa ttagtaatat 240

gttaaaaatg ttatttgta aagtaata 268

<210> 34887

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C9

<400> 34887

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gaaac 65

<210> 34888

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D5

<400> 34888

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tgctggcttt caacaagatc tagagtccag tttctgagat tgggcaacgg cagcggctca 120

tctcgtcaag tttgtgctgg gatgccagtt tatcccttct agtctattac agaaatgttg 180

ttcggagctg agtctattat aaacatcttg gtctgagttt attgttgagt ggtgccagtt 240

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<210> 34889

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F2

<400> 34889

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gagacttgga acttcatgtc gcatacttta aatttcatgt ttcggactta aaaaacaaaa 120

attaagacaa attatacttg ctaaactata aaatactcag attacataac ctataaaatt 180

ataattaaag gccggcccct ctttaggttc caattttaca tcccctagct tgcgacgcca 240



tatctctttt gtagggtcac ctaacttaaa tt

272

<210> 34890  
<211> 362  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-049-Q1-K1-A1  
  
<400> 34890

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gtacaattaa caggcttccg gtcctccaca gaatgaaatt tacagtgtgtg tcgccgcccc 180  
ccacccggcc cccgctcgtc agcgaactgc gatccttttc gccttggacg atttgtgtct 240  
gatgaagaga gccgccagca tgcttttagt gccaacaggg gccttttgga tcgcacgacc 300  
tttgggggttg tcgaaggaat ggaatgttga aagttccttt acaccagata tgttcttagc 360  
gc 362

<210> 34891  
<211> 359  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-049-Q1-K1-F1  
  
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cctgtcgaat caatccgggg gctaagattt acgtaattct ttttttcttc ttctttgctc 180  
ttctccccac cccactatt ttaaataatc ctccagtgtg aatacatgta ctactgcggt 240  
ttggccacgc cagccagcat tgttgcaact tggaagtgaaggagaaaaa ttcgtttttt 300  
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<210> 34892  
<211> 94  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F11

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<210> 34893

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E5

<400> 34893

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gtaatcatgt tttttgtcag tgagttcggt tcttttgtca cctacgggtgc atctggctat 120

aagaagataa gatttggaag taggtggatt gctctgggtg ttgagaagtt tgttgaaccc 180

gatgtttcct tggttccaac actgtcatgc tccatcgatt attttggaga gttgatcagt 240

gggcagaaac cgtggaagaa aagctgacat ttgcactcac ccgagcccta tcagcagcgc 300

cggccctggc aggggtcgag cagtgccctt aaccaggccc ccagattaat ggagccctcc 360

tttagaattt ggcacttggg 380

<210> 34894

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G5

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ccagggcacg gcgatagagg cacctaaaag caaaacacag gcagacgncg aacaacgacg 120

agacagggaa aacc 134

<210> 34895

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H3

<400> 34895

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gacattggct aaccgaaccc aacacgagaa ccaatccaca ggagggttaa aaaaaccggc 180

ggttgttctt tgaaaagaag tccgtccatt agaagaatga ccaggccatc gccgagacca 240

acggcaaggc caagcccgcg gttaacccaa gc 272

<210> 34896

<211> 66

<212> DNA

<213> Zea mays

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<400> 34896

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agtacg 66

<210> 34897

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B12

<400> 34897

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aaagaaaaa 69

<210> 34898

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C1

<400> 34898

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<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E1

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aaaaattaca tacacatgaa tgaaaagtaa taaataatgg tatagtggta ctataaatc 180  
aattcat 187

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E11

<400> 34900

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gagattcatg cggagtgcag agcaaaaacc acgctactag taccattacc agccggccgt 180  
gagccgcagt tcctgcagcc gtgccggcgt cggccaactc caagaacaga tctacggtaa 240  
actctagtac taatcttttt tgtacgtacg tatagtgggc acaaattgtg tccgtatgta 300  
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<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E8

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 gcttggtcag tgatgtgtct tctatgacga aagttgagt cctatgtgtg agcatgcttg 180  
 cttgtaacga gacattgaat tgttcggaaa tgagcattcc tgtgctcttc ttgaaaataa 240  
 aaaacataaa taaatattat aattatttta atttatttta tttattctat catattttat 300  
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<210> 34902

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H10

<400> 34902

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atgaaaaaaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34903

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H4

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ctaattgggtc taaaaattca agtgagaaca attcattgtg tgacctatat tccaagcttg 120

ctaattgatgc aaggctatat ggtgcatgtg acaatgatca aagccacttg ccgtcaactt 180

cttaagtttt accgtttgca tactccaatt catattat tttaaccttc aagtttacct 240

gacttgctta ttggcaccct tt 262

<210> 34904

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A10

<400> 34904

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ttactgacac cagctccacc gggaatgcac acccaccctc aacccccaac acctggacta 120

caggcccacc gacgtcggcc actatgagga ccacacgtta caccgaaact cgcacgccag 180

cactcagcac cttctcctgc gacacgcca gccccaccac gagccgaccg gctacaacta 240

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<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A7

<400> 34905

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agagaataaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34906

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B7

<400> 34906

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caaatatcta aaaaagctca aaaaccgcta ttaataaac ctgcttatta ttatgtaatt 120

ggtcaagtaa atgctgacca agccaaagat ccttaccttt acttttccca tgatc 175

<210> 34907

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B9

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gcgtctacac catgggccta gatgtatata caaaattaca tcaactacat acataacaca 120  
gtctacacca ccaagaacga gtcacctgac atgctcacca cgcacactac tcacccagtt 180  
agcttctaac cacacgacaa gtactatcgc cagcgggtacc tgttgaagaa cacatttgta 240  
cttatgccaa cacagaatcc agcactgaac tactgaagct tcaactttcc aaccatggat 300  
gtgcaaattg tgtaactgat tgatgcttgg ttgctgcaat gtacaaatag tatcttatga 360  
aaccatttaa aactgctac gcactactat gacatctcag cgcatttaag cactata 417

<210> 34908

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E9

<400> 34908

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ggcacgcttc cgccgacgcg tcttcccacg cgtacgcca cacgtcct 108

<210> 34909

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B4

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ttttcttcta ttatgacaaa tgcagtcgct tgatcaagca tctagacggc cgtttctactc 180

ccgttcacgg aagtacagac cacgtgtcct gccggacttt gtttcgggtca agctgagtgt 240

gcacacgcgt atccatgcct tactcaactg ctgacctgta acatctaaat ggtctgtctt 300

gcgtcacgtg gtactcatca gcaaacactt gacagccttt tcaccgatca ccaacgcctc 360

gttgccctgc cactgggtga gcattgacct gcagctatct gccttgacg cagcacacc 420

gtat 424

<210> 34910

<211> 52  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C10

<400> 34910

cccacgcgtc cgcccacgcg tccgaaaaaa aaaaaaaaaa aaaaaggga aa 52

<210> 34911  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C5

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taccgggtgt actggaacgc ctaccaccac tcggtcggct acgccatcat cgtgctgggc 180  
gtcgtcaaca ttttcaaggg catggccatc ctcgacgtgg agcagaggtg gaagacgggc 240  
tacatcgccg ccatctccgt cctcgggcgc gtcgccgtgg ccctggaggc cgtcacgtgg 300  
ggcgtcgttc tgaggcggag gaaggaggaa agcaagagct acaacggcac ctc 353

<210> 34912  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D10

<400> 34912

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ctgaataagt tttatcacct taaaaactgt gaaaacccat ttgttcccca acgttatagt 180  
cttcctaaca tctaatttta ttcaaaaac gtaatataga ataaatctca acagattgtt 240  
ctttccaaca ttattccatc atgaatggtc aattggatgc gctttgtatc gatacattac 300  
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381

<210> 34913

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D2

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agagagaaaa aaaaaaaaaa acaaataaaa aaaaac 96

<210> 34914

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G9

<400> 34914

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atccacagga gggtaaaaaa aaccgccgct gtcctttga gaggaggctg gtccatcata 120

agagtgcga ggctatcgcg gagaccactg cgagcgctac gccgtcgctg accccagtcc 180

ggaacttgac accgctgccc gcggcgctgt cgctcgagg gttgccgtca gctgacggcg 240

tgatcttaga ggcgttgga aacagggcgt actccgcaa gcctggcttc aggttcagca 300

aggagatgca ctgcgagacg tttgagttgg tgaggttgca agcagcggac atcgccatga 360

gtcgatccaa gcgcattgcc agcgactgta 390

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<211> 230

<212> DNA

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ggttgtcacc gtcagagttg acttgcatc tttgctcctg atcctgtcgg ttaccgtgga 120

tcacatttcc tgttgaatta cacaaaagcc tactggtttc taatagattg ctgccaccta 180  
 caatattatg acgctgctga actttaaaag caaccaaattg cggccgaaga 230

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A6

<400> 34916

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 attcaattca cttgcctctt ttttccaaac ttttgggctt gcaaacctct ttcataaacc 180  
 aaatttatcc ccttttaaaa aaattcccct ttttttttgt tgtcccaaaa aaaaaaaaaac 240  
 cccccccctt tttcaaacc caaaaattttc caaaa 275

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 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B10

<400> 34917

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 cggccacttg cggctaaggg cttaaggacc tgctccggga tgcgccggct ctcggatgca 180  
 tacctggctc tgggttccgt catcttacga cacgctggat gggcgggaga ttacacggac 240  
 cccaggggca acgccaatct ggcgtaacga aggtcgagtc ggcgttcgct gtactaactg 300  
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<210> 34918  
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 <212> DNA  
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<223> Clone ID: LIB3068-054-Q1-K1-B11

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 <211> 320  
 <212> DNA  
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<223> Clone ID: LIB3068-054-Q1-K1-B9

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 gagaaggcgc gctggcaaga cagactacag ggccaggata aggctgatta accaagacaa 180  
 aaacaagttc aatacaccca aatacagatt tgttgtgcga tttaccaaca aggacatcac 240  
 agcaciaaatc atctctgcta gtatagcagg tgatatgggtt cttgcttctg cttactcgca 300  
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 <212> DNA  
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<223> Clone ID: LIB3068-054-Q1-K1-F12

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 ccgcaacgag cagctcgagg cccaccttcg ctccacggcc cgtcccgaga ccacgatgat 240  
 ggggcaagtg aacagggaga ggctggcgga gtttctcggc gagctgcaac ggaaagagga 300  
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<211> 270  
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 accaatttaa ttgatacttt atgtcacagt gtatatgttt atgtgtcatt tgtttttctt 180  
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 <223> Clone ID: LIB3068-055-Q1-K1-C11  
  
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 aaaaaataa ataaaaaaaa aaaaaagggc gtccttttta aagaatccaa atttacttac 180  
 ccttgctttc aaaatcataa cttttttata atgcccccta aattcaatta actggccctc 240  
 ttttaaaaac atcctaattt gaaaaaccct tgctttccca aattaaacct ctttgaaaaa 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-E6  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-F11  
  
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 aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaagttt 57

<210> 34925  
 <211> 67  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-F12  
  
 <400> 34925  
  
 aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
  
 aaaagaa 67

<210> 34926  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-055-Q1-K1-H7  
  
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 <223> unsure at all n locations  
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 tgcacctgtt cagttattat gttttgatat ggttttctcaa tttcttagga taactctgta 180  
 gtctgaaaaa acaggatccg acttcttact 210

<210> 34928  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 caacgctttg agaataaaag ctttctcttc atctgtatat tttattttta atgaaagaaa 180  
 taaaccacta tatatttcga caaaaaaaaaa aaaaaaaaaag ggaggaccat ctaaaagaac 240  
 caaacttaca aactcgtgca atgcgactaa atacgttctc tatagcggca cccaaaattc 300  
 aattccatgg ccggtt 316

<210> 34929  
 <211> 129  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-056-Q1-K1-C5  
 <400> 34929

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 aattcaatt 129

<210> 34930  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-056-Q1-K1-F2

<400> 34930  
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<210> 34931  
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 <213> Zea mays

<223> unsure at all n locations  
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 tctgtcaccg tgtagtgctc cgttctacct ttggattagg tgttggtacc cctgttggtc 180  
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 agct 244

<210> 34932  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B2

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 taccaccacc ctctgtaatc tcagctgctg tggcaacttt gactcttttc ggaataactca 180  
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<210> 34933  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C5

<400> 34933

ttccccggccc gaccactca tcctaaaaaa caaaaaaaaa aaaaaaaaaa aattaaaaaa 60  
caaacaaaaa aaaaaaaaaa aaaagaaaaa atacaaaaaa cagaaaaaca aaacaaaaca 120  
aaaaaaaaaa ctccacccaa tcatactcac cccctctaac atccactctc attcaccat 180  
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<210> 34934

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C6

<400> 34934

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ttccctgaaa tgggtttgcg accactgaat ttgcatgtgt aacctttcca agaaaccagt 120  
agcagtttgt aaaaaaaaaa aaacaaagac acataaat 158

<210> 34935

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E7

<400> 34935

cacgggttta ccggacattt tggcagatcg catggtacgg agacgaattt gcatatttgt 60  
tttctcgt 68

<210> 34936

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G8

<400> 34936

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gacgatttaa aaagatccag ggtgacgggc ccgtgcatgc gacggcttcg ctcttacata 120  
gacttaccta aattcaatta 140

<210> 34937  
<211> 68  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-057-Q1-K1-H3  
  
<400> 34937

cccacgcgtc cgaaaaaaaa aaaaaggata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
gagaaagg 68

<210> 34938  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-058-Q1-K1-D8  
  
<400> 34938

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tagactaaac gggggacatg ggtcgcacgc aatctgtcgt agcggtcgtc gtgggtggccg 120  
cgggtgctgct gctggcagcg gcggcgacga ccttgtatgc cgccatcacc tgcgggcagg 180  
tgagctccgc catcgtccc tgctctctct acgcccgcgg cacgggtgtcc ggcccctccg 240  
cgttctgctg tagcggcggt aggaacctca agagcgccgt cagcaccgcc tccgacaggc 300  
gctccgcctg caactgcctc aagaactccg tcaggggcgt cagttgcctc tacttcggta 360  
acgcctgcag cattcccttc aagtgtgtg tcagcattcc ctacaccatc agcaccttca 420  
cctac 425

<210> 34939  
<211> 199  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-058-Q1-K1-G6  
  
<400> 34939

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ggaaaaataa taaggatata aaaattaaaa acacatacat acaaaaaaat ggcgtcttct 120  
ttataggttc ctagtttctt ttcacttget ttcgatttac tacttttttt ttagtgtaac 180  
ttatatattat ttcattgtt 199

<210> 34940  
<211> 213  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-058-Q1-K1-H4  
<400> 34940

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gtcgccgcac tcgcccgcgc aggagtacat gggggagttc gcgagaccgt cgtggctggc 120  
ggagcccatg gtgaatgctg cgttcgagaa gttcggcggc atgatgaagg agatcgaggg 180  
gttcacgcac gagtgcacac acaacctgta cct 213

<210> 34941  
<211> 321  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-059-Q1-K1-A7  
<400> 34941

aaaaataaga aagggttaatt ataaaccaag gggcatcata tatattcata catacgtaca 60  
tgatcactgc atgtgacaca tctaagcaca taaagtttagc tatttactca tagacactca 120  
cgaaggctct gtctgcaccc aaagcacaga attttaacaa ctaaagcctt acgagacgac 180  
caacatcatt aaggacttca acgagcctcc gtttctggac ccgatcagtc tcttacttgg 240  
ccccaccaag ttcattgtca tacaaggcga gcccggcgct gtcacccatg ggaagaaggg 300  
atctggaggc ataactgtga a 321

<210> 34942  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B12

<400> 34942

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gctgttctgt gtgccaccgg acagtgttcg gtgcaccatg cccgtgcaaa tccgaagcag 120  
ccactctagg gaattcaacg acgccctccg ctataattca ccggactgtc cgggtgtgcca 180  
gcggatcatc ggctaactcg tgccaacggg cgactctgac ggctgaacag tgttacgaca 240  
gaagtcatag cagaaagtca cagggcaccg gact 274

<210> 34943

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B9

<400> 34943

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gaccatggcg gtgggcacgc cggcggcgac ttccgccaga aggtatggag catgacgggc 120  
ggccccact gccgccccgt ccaactggcg cgtaacaccg ccatcgccat gttcggcgtc 180  
ttcctcatct gcacccccat cgctatgaag tccgcagagc tcgagcaacg cccgcacac 240  
ccagtcggcg caatcccatc tcaactgtgg tgcaaaaact ttggtaagaa ggaatactga 300  
aggaccctgc aactagcatg aagtgtgggc accttgcttt tgctttctat atgtggaaac 360  
ctgtgcctag ccataatgct gggttaagtg ttaggagcat ctctggaatg cttcgcgtag 420  
tatctcttga tactttcttc cttc 444

<210> 34944

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C1

<400> 34944

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gatctggccc gggctctatt gcagaagcgc ggtcacttgt ctcagcccgg ggtctgctgc 120

gtctggtggt ggtgaatggg agaacctcgt gacgatctgt tccggatcaa gcgtagcgagc 180  
 tcgggaatca ggggtttcac acatagctgt tgcgatctga attcgatgta ctaatggagt 240  
 ctaatgccgg ctaaaagtct agccttactt actctatgat gtctgaagct ccccttggt 300  
 acagcattga cgacgttcga tctgtc 326

<210> 34945  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-059-Q1-K1-C2  
 <400> 34945

tatcaactaaa accgaggact gtgagagttt tttcaacttt ttcaatcccc cgcagggtccc 60  
 tggagatgat gatgacatcg atgaagacac tgctgatgag ctgcagagtc aaatggagca 120  
 tgattatgac attgggacca ccataagggg taagattatc cctcatgcag tttcctggtt 180  
 tactggtgag gctgtgcaag gtgaggattt tgggtgagttg ggcgatgatg atgaagatga 240  
 tgatgatgaa gacgatgacg aagatgatga ggatgaagaa gaggatgatg atgatgaaga 300  
 ggatgatgag gaagaaagca agccagcaag gaagtcaaga tctggtcgcg gacataaggc 360  
 gccacagaaa gtgtcccatg gaaatgcgga acaaccagcg gagtgcgaagc agcaataaaa 420  
 tggcccgttg atgttggttg atgcaatatt t 451

<210> 34946  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-059-Q1-K1-C8  
 <400> 34946

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 aggtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 120  
 agttgtcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 180  
 ctgatgttgt aagagttgct aattcccctg cattgctacc gggttattga gaataattat 240  
 ggctgcttac gttgttgctt caaaaaacga acacattatt 280

<210> 34947  
 <211> 77  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-D7  
  
 <400> 34947  
  
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 gaagagtaaa ataaaaa 77

<210> 34948  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-E6  
  
 <400> 34948  
  
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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacgg gagatataga gggataaaga 120  
 gtaattagac ttaaatgcga ctaaatatat attcgatagc gtgagataaa ttaaatttag 180  
 gggctagtag ttttaaaaat aacgagactg tgaaaac 217

<210> 34949  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-F3  
  
 <400> 34949  
  
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 acggtgacgg aggtcgtgtc cacgggagag aacgagtacg acgagtaca gaaggaggag 120  
 aagcagcaca tgcacaagca gcacctcggc gagggccggc ccatcgccgt cggcgccttc 180  
 gcactctacg agaagcacga ggcgaagaag gacccggagc acgcgcaccg tcacaagatc 240  
 gaggaggagg tcgcggcggc ggctgtcgtc ggctccggcg gcttcgcctt ccacgagcac 300  
 cactagaaga agaaggacca catggaggcc gatgaggccg gctgcgagaa gaagcaccac 360

ttcttcgggt agctgattga tcctaccata tcgatcgctg tacctaccct gttgctacgc 420  
gtgcgtgtga gagtgatatc gagcg 445

<210> 34950

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F9

<400> 34950

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acagaggggt tttataaaaa aatgcggggt tacaaaaacg ttcattgctac ttcatatccc 120

tatcataggt tcacctaaat acaatt 146

<210> 34951

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-059-Q1-K1-H10

<400> 34951

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gcggccnatt tccaaggccg ccgggcctgg caccgcagct acctcctcta cggctcgcgc 120

ggcacaggca agtcacggt cgcggcggcc atggccaggt tcctaggcta cgacgttgac 180

ctgtctcgca ccgatgccgt cgtcgacgac ctccgcgcgc tgctcctgca caccaccccg 240

cgctcgcctg tccttgctga ggacct 266

<210> 34952

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-A5

<400> 34952

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catttcacaa tatggcaaga gctcttgctt acggtgaggc agctgccgca gctggcttcg 120

tctcgccgtg gcttgccgtg ctcggtgcgg ccattgctctc cgtctgggcc atcacgctcg 180  
ccatcctcct ctgtggcgac agctcagaca acccgagacc aagatacaat cctgccgtta 240  
gtgctggctat agcagctggt ggcggaaggg gctgtggtgg cggaggcggg ggtggtggag 300  
ggggctgtgg tggcggatgc cgttgtggag ggggct 336

<210> 34953  
<211> 71  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E5

<400> 34953

aagaaaaaaaa aaaaaaaaaa aattatataa aaaaaaaaaa aaaaaaaaaa aaaggaggaa 60  
aaaattaaaa a 71

<210> 34954  
<211> 98  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H2

<400> 34954

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tgactatata taaggcatca tatggagttt agagggtgc 98

<210> 34955  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H9

<400> 34955

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atcgtgagga tgctggaaca ggtggagatg gaggttctga ccaccgtccg aaaggctcgg 120  
ttccgctgct gcatcgccca accgatgacg ctggactgag tcatccacaa aatccaggaa 180  
aataacctgg agtgccgttt actcctatgt atttataata tatattatta gagttgtgct 240

tcagaagcag ggagctgact cctcagtctg ccttctgtct ttgacatgtc accgtagagt 300  
acaccagagt ggttgtaata gaggtagctt ttttttaaatt gcttgaccaa atacccttct 360  
ccgtgtaaaa gtgcctgttc ttgcaaaaaa aaaaaaatTT aaaa 404

<210> 34956

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B2

<400> 34956

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ggtgaacccc gactgcggcc tcaagacccg caagtacacg gaggtcaagc ccgccctgac 180  
caacatggtc tccgccgcta agctcatccg caccagctc gccagcgcca agtgagcacc 240  
ttttttttgc ctttttcgtt tccgaggagg gcgtcgtcga tgccaatttg tttccaataa 300  
acagggctgt gcccgccgtt ctgttgact cctctctgtg ttaggttagt agttatcttg 360  
atctcgccct cagcggtac ctgttttact actctctgat tgggtggtttc tgaggcaagt 420  
tgcccgtgta cttgtatcgt aaaaa 445

<210> 34957

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C4

<400> 34957

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ttgaatgaag aagaatggca cttcttagag gtcgattttg atgaagattg atcattgaag 120  
gtaactgtaa gagttgactg ccatggtttg tgacaggggt gccatggttt gctgcaccgc 180  
cggcctacta gttgggggtt catttgcat ggcagcatag acagacgggc ggccattttt 240  
cttccatttt ggagtaatag tccaagcctg aactgtgaca ttcgtgcatg cttatacgtg 300  
aaagtgtacc tgagagcaga ttatacgtga aagtgcacga gcgttgcata tgcaaaaaaa 360



aaaattgtta tatatattat aaataatat

389

<210> 34958

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D11

<400> 34958

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gcataggggc gaaagactaa tgtaggggtc tatcagctga tggcgggcga agtttacctc 120

aagatagctg gagccacac aagttctatc gggtaaagcc aatcattata ggcatcgagc 180

gcgcacgcgc ctcaacctat tctcaaacct caaataggtc ggacggctcg tctagcttgg 240

tgagccctac cacggaatcg agatgctact agtacgccat tttt 284

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D6

<400> 34959

cccacgcac ccttgactcg tggcattatt taacacacac aacacacac aaaaaaggag 60

aaaatattaa 70

<210> 34960

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E7

<400> 34960

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tggtggagac cccgccgccg gccgtcgtgc ccgaggagtc tgccccgccg gaggccgagg 180

ccgaggccga ggctgctgct cctgctgac ccgaggagct tcccgcggcc gagcagcagg 240

cagccgccga ggcggaggcc gcggtcctg ctggtgccga ggagcccgtc gcggccgaac 300  
 cggccgccta tgctgaggct gctgctcctg ctggtcccga tgagactcct gcggtcgagc 360  
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<210> 34961  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-061-Q1-K1-G12  
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 nccnctacgg ctgcgcgggc acaggcaagn ccacgnncgc ggcggccatg gccagncccc 120  
 taggctacga cgttgacctg tctcgaccg atgccgccgc cgacgacctc cgcgcgctgc 180  
 tcctgcacac cccccgcgc tcgctcgccc ttgtcgagga cct 223

<210> 34962  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3068-061-Q1-K1-G4  
 <400> 34962

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 agggttttta aaacagccgg cgcggcaaaa gaacgccagc gaacaaaccc aacaaggatc 120  
 accagatcaa ccaccttaac agcaccacc tactcaccat tccagacttc tacaccagtg 180  
 cctacgcaaa gacctacatc cataacgatc attctaaaga ctatactcac caaagcaaca 240  
 tgctaccact aaacggccaa gctcaccag acaactatcg gacatccgag acggaaccaa 300  
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<210> 34963  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H6

<400> 34963

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gga 63

<210> 34964

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B12

<400> 34964

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caagatcaaa aaaaaaaaaa ggcagccaaa caacaaaaaa aaaaaaaca aaaaaaaca 120

aaaaaaaaat taaactagac cgccatttaa aaacaccatc tactgcaaaa accctctcaa 180

<210> 34965

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H10

<400> 34965

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gaagggttaa aaaaaaaaga gtgcaag 87

<210> 34966

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C4

<400> 34966

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atctgaaggg gaagaagggtg ttcgtgcgcg ccgacctcaa cgtcccgtc gacgatgccc 180

agaagatcac cgacgacacc cgcatacgcg cctccgtccc caccatcaag ttcctcctcg 240  
agaagggcgc caaggtcatc ctgccagcc acctgggtcg tccaaaaggt gtcaccccaa 300  
agtacagctt gaagcctctt gttccacgct tgtctgagct ccttgagtt gagtcgtgat 360  
ggccaatgat tgcattggtg aagaagttga gaagttggct gccgctttgc cagaaggtgg 420  
agttctgctc ctagagaat 439

<210> 34967

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E10

<400> 34967

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cagccccaccg gtctacaaaa tcaggccgag cttgggtcgcc gagctgtaca gctacagaat 180  
catgccgcta accaaggagg ttgaggctgc gtacttgctt aagaggctgg attgagtgtg 240  
tttacgtagc tgtaaaactg ccagatccga actcctggta ttaaaccata acatcggtaa 300  
gtaccatttt ctgtgaagag gatgatccga actcctgtca ttaaaccaga acatcagtaa 360  
gtaccagtt ttggggaaag gatggaaaat ataccatgtg tggcaagcaa catgcataat 420  
atcatc 426

<210> 34968

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-D11

<400> 34968

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tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat ttcgaccggc 180  
ggcgggtgca gcttggaact cttggaaggc aagactctac ctggtgtcct tgccctcgat 240

gacgcctaga tccgctgctg ctgctgctac tcaggttctg ccagctttgc gtgtcatctt 300  
 gtttcggacc ttggtgtagc actgcaaggc taaggtttac tcctccgcac atggactttt 360  
 ggggataggc ttgccaccgt gttttgctag atgagtcgtg gaataagctt ttacttnctc 420  
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<210> 34969  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gtgaagctga ttgagattct gaacccttca aacaaacctg gaaggatcac cataattaca 180  
 aggatggggg cagagaacat gagagtgaag ttgcctcatc ttatccgtgc tgttcgcaat 240  
 gctggattaa ttgtcacatg gattactgat cctatgcatg gaaacaccat caaggccccct 300  
 tgtggccctg agactcgtnc atttgactca attctggctg aagtgcgcgc attcttcgat 360  
 gtgcatgat 369

<210> 34970  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-001-Q1-K1-E2  
 <400> 34970

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<223> Clone ID: LIB3069-002-Q1-K1-D6

<400> 34971

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 gcttacaggc gaacaaccgg ttatgaccac tactgacttc tggaccttgg accaatggct 180  
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<223> unsure at all n locations  
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<400> 34972

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 caggtacggg gtgggcaaga ggatccggct tccctacacc aggaagatca tcgacgccat 180  
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 caaggccgcg tacaaggaga cgctcctgag gcttgccggg ctcttcaaga agaacttcga 360  
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 <211> 333

<212> DNA  
 <213> Zea mays  
  
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 gcaattggag ctgccaagc agtcggcact gcgcagatg catactacgc aaaacgccta 240  
 ctggaagcca ctggaatcgt cgtcgtcccc ggttctgggt ttggacaggt ccttggaaacg 300  
 tggcacttca ggtgcacgat actgccgcag gag 333

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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-056-Q1-K1-C9  
  
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<210> 34975  
 <211> 379  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-F2  
  
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 aagaggtggg ggccctaccc atcttgctat actgtcacag cctccagaaa ccatccatgg 180  
 atcacttagg gtaaccgttc aaggcgaagt gattgagcaa tctttcggag aggagcattt 240  
 gtgcttttagg aactgcagc gtttcacggc tgcgaccctt gaacatggta tgcacccttc 300  
 aatttcgccg aaaccagaat ggcgtgcttt gatggatgag atggctatcg tcgccacaaa 360  
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 <223> unsure at all n locations  
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 gaagcaagcc ttccccctgc aaatgcagag atgoggcttt gaacccgtga cctgggtgact 180  
 aagtgagaca cctctcacca ctgcaacagg cctgtccttc ctcatcgnta aaactgagca 240  
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 <213> Zea mays  
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 atctacggca atagaagcat attgtgccta tgttgctgaa gggttcgaaa acctgctgga 180  
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aactgctgcc gctttggtcg ccaactatga cgacaaagcg ctacagtatc taaatttgct 300  
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<210> 34978

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A1

<400> 34978

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 tctcttcggg gacaagccgg tcaccgtctt tggcatcagg aaccctgagg aaatcccgtg 300  
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<210> 34979

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F9

<400> 34979

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 gatggaccat tgggtttatg acaaattggtg acaaatatca tatacacgct ctgcgcgtcg 180  
 aaggtcagat catttttggt gatcttatct agcgaagtga tggcttatat gttcaggatc 240  
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<210> 34980

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F9

<400> 34980

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aagttggcac aggtaaaatt tagtagcatg cttcataaga gaattcctgc agaagctggc 180

atcagcataa tttgtgcttc tcttgaatt gtcgacacga atgttacaag agaccttcct 240

aagattgttg tagctgcata ccattttctt ccctacttca tattcgatgg tcaagaaggt 300

tctaggagtg cactgtttgc agcatgtgac cccaagttc cagagtactg tgagatgctc 360

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tctgaagaag cgcaca 436

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<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G9

<400> 34981

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gccgctgctg gtgagcgcaa tcagaggag gaaggctgag aggccaccgc tctggctcat 300

gaggcaagcc gggaggtaca tgaagagcta ccaattgctc tgcgagcggt atccttcgtt 360

ccgtgaaaga tcagaaaatg tcgacctagt tgttgagatc tctttgc 407

<210> 34982

<211> 380

<212> DNA

<213> Zea mays

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<400> 34982

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tccagtttga gcggcttggg tacttcgccg tggatactga ctccacacct gagaaactcg 180  
tgttcaacag aactgttacc ctccgtgatt cgttcgggaa agctggacct aagtgactgt 240  
tcagtgtaat ttagggaggg cgctggtttt gatcggttgc agaagcgac ctgaactata 300  
caagttgtga agaaaatggt cgtctaatac agaacagttt aaagggcctt actctttata 360  
aaatttaggg ttttttaaaa 380

<210> 34983

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E9

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tcgttggtga ggtaggcaa caagacgtcc aactgcataa gcaaaggcat gaggatagga 180  
ttatgaccat ggatctgact gtactgccag aagaacaaaa gaaatactac ttatctttac 240  
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ttcaatatgt ttctcgtgtt catgtcagt tttcacatca tgttttgtcc aaacaggcgt 360  
aagtggtttt atctcaaata gtttgtgtca ttgcttccat ggtatctatt gttttaatat 420  
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<210> 34984

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F11

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 caatcacagc tgcaagataa gatgcacgtg catctgcagg ggcaaggctc tagcgtcacc 360  
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<210> 34985

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F12

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 ggtgattacc gacaccgact aaggccagta ccagaggtag atgaatgtgg agaacgatca 240  
 caatcacaag catcacctcg gccaggccgt cgccatcgtc gtccacgect tcgcactcta 300  
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<210> 34986

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F5

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ctccagcctt catcaaccct caggtctggat atgctttcca gcaacttatg atgcctggta 300  
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<210> 34987

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F6

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gaggttgcag ccaccggaga ggcggctccg ggcgcggctt cttcaacacc ggcacaaaac 180  
cctaacgctg ctgcaaccgc agtggccggg gccacggatc tagagaagaa gatgcgcgcg 240  
gcggagcggg ttgggatgcc agtactgatg tcagaggagg aaaagcgcag cagtcgcgcg 300  
gagagatttg ggactggctc ttcaagtgt aaggaggaag agaagaagaa gtccagggct 360  
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<210> 34988

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F7

<400> 34988

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<211> 196  
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 <213> Zea mays  
  
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 <223> Clone ID: LIB3069-010-Q1-K1-G11  
  
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<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G12

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<210> 34993

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G2

<400> 34993

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<211> 326

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<213> Zea mays

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accaatgctc tggactctgg tgcgtcatca ggggtcaaagg actacgtaca cgttcgcac 240  
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<210> 34995

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G5

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<210> 34996

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G7

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<210> 34997

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G8

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cgggtggcaca ggctccggcg tcttggggcg ccgaccgtct ggtatgctac tacgggtcta 180  
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<210> 34998

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E8

<400> 34998

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tccgctccga caactaccac ctctgcaact acggcagcgg cggcttcaac gtgggtctcg 240  
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323

<210> 34999

<211> 350

<212> DNA

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<223> Clone ID: LIB3069-010-Q1-K1-G9

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aggcctaatt acaaatgctc ctaccactaa cataaaggca cctacaactc ctaaaaagga 120

cgcaacccca aacaatgctg actctgctac cctcccagac accaaactct attccaccaa 180

cgccaataac tactctccct gccttcacac tagccaaaac cccccctcaa taccacctat 240

acaaaccctt attccatcca tactgatcca atcacaatac cctcagtagc tctatattcg 300

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<210> 35000

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D10

<400> 35000

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tgcaatgggc cttcctgggt tttggatgga tgttggtcag ccaagagact acattactgg 120

attgcgtctt tatctagact cgcttaggaa gaaatcggtt gccaggctag ctgctggagc 180

acatgttggt ggcaacgtgc tggatcatga gagcgccaag attggagaag gttgcctgat 240

cggctcctgat gtcgcaattg gacctggatg tgtcgtggaa gatggcgtga ggctttcccg 300

ctgcactgtc atgcgtgggt tgcgtatcaa gaagcatgcc tgcattctga acagcattat 360

cgggtggcac tcaactgttg gacaatgggc acggatagag aatatgacca tcctgggcga 420

agatgttcat gtgtgtgacg aggt 444

<210> 35001

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D11

<400> 35001

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tgcgttcttt cctatctccg cgactcaaag cttcttccat ttctaccgc caccctgca 120

gctgcacccc attccgtcta caccatgacg tagtgcattt agatccacat ctgccaagcc 180

actatccatg tctcaaagcg gtgctgcgag ctctactgcc tcaagcatag cattcatgct 240

gatggtcaca tgcccagaga caacaccatt gaggctgggc atgatgcttt caacaccttc 300

ttcagtgata ctgatgctgg gaagcacgct actcgtactg tatttggtga ccttgaaaca 360

actgtcatcg attacgtgag gactgtcacc taccgacagc tcttccaccc tgagcacttt 420

atcaat 426

<210> 35002

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-D12

<400> 35002

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ctcggcgcgt gcgtngcagt ctccgtaacg aggtgcacat cggcgacgcc aacgtcaagt 120

gctgcccgtc cgtgaagggc atcgcggggc tctccgcggc ggcgctgctg tgcaccgcca 180

tcaaggccaa ggtgctggac atctccgtct acgtgcccat cgcgctggag gtgctcgtca 240

actgcggctg cgaggctccg ccaggctaca aatgcactta aacgactcca ttccatttca 300

tcccatctca ccatgcgtgc acagcgaggt ctctttttgc cctcccgat gcaaagtgtg 360

aaaggctcgt cgacggattt gggctctcct ttgcccaccc gaatgcaaag tttcgaaagg 420

ctcgtcgacg gattgtgctc ttcggctact gcattcttcc ttatttcatt tg 472

<210> 35003

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D3

<400> 35003

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tacgggtatc catgcgcccc cggaagaagat ggctactct actccaatct gccttagctc 120  
aagctctggt cgaggaggca gaggccggtg ccagctggcg gactgagagg taggtagcag 180  
cttgcggttg cggaagggaa gctgc 205

<210> 35004

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-D4

<400> 35004

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ctctgtccct atctaataac tagccactct gtcgtgtact catcaacctt ctgatcgctc 120  
accatggcca ctgcctagat ccatacccc accctcgtgg cgacctaaga agcaccagta 180  
atgtagacct cagctccgcc cgccgtcttg cccgacgagg ct 222

<210> 35005

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D5

<400> 35005

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gcgaacttga gcagcaagg gtcgttcgag gttcccaatg tggaggtcag gttcatcaag 120  
ctcttcacgc acggcaagtt cgtcgacgcc gtctacggca agacgttcga gaccctagga 180  
ccctcgcacc ggcgaggtga tcgccagcat cgcgaggga ggcaaggcct acgtctacct 240  
cgccgtcaag gccgaccggg aggccttcga caacggggcc tggccatta tgactgtata 300  
ctagcgtggt ccgatcctgc acaggttcgc ggacctgac gacgagcacg tggaggagct 360

ggcggcgctt gacac

375

<210> 35006

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D7

<400> 35006

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actaattttca aagaaagaat caaacgatat tattgctagt ctttcgaaca aaaaaagaag 120

gaatcaaaag atatgtatat aaaaaacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcctgggtt 240

tgaaattctg aaccagggtgc ctggatgaag gagctgacga gttcttttcta aaacctgtgc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgacaat tgcattggct aacgcatgaa cccacaatc agc 413

<210> 35007

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D8

<400> 35007

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actatttttca aagatagaag cccacgacat gatcgctcgt ctttcgaaca aagaatgatg 120

gaatcaaaag atatgtatat aaaatacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcctgggtt 240

tgaaattctg aaccagggtgc ctggaggaag gagctgacga gttcttgcta aaacctgggc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgaca 378

<210> 35008

<211> 460

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3069-010-Q1-K1-D9

<400> 35008

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gccgatgctg gatcgctatg tgctcagcag taagatccat agcgtgctga gatacatggc 180  
acctgatttc acttgcacaa ctgtcaatgt cacggataat tgcgacatat acagcttcgg 240  
agtgctagtc cttgagattt tgtcaggcag aaggcccgta gaatatctgc aagatagtgt 300  
ggctgtgctt tctgatcttg tctactgatgc actcgatgat gacaggctgg aggactgcat 360  
ggatccacgg ctactaggtg agttctcgac ggtggatgcc aactgatca tcaagctggg 420  
cctgggtctgt gcatctgang tgccttctca acgaccggac 460

<210> 35009

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E1

<400> 35009

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ataggtaact tttcaacaga taaacaatat tgcttctctca acaatacaat gtctagaaga 120  
atatacacia tctagaactc ccgatagtta caatcaactg ttctcggcat ttcaaccaca 180  
tgaatgtgaa ggatgcacat aatccacttc gtccttttcc taataaaata tctgagactc 240  
gctcaagtac ctgggtcaca 260

<210> 35010

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E10

<400> 35010

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ttcgtcggcg aaggcagaga tggcgtccgt ggccgcggcg gaggtcgcg cggcggcgct 120  
 ccggtcgggtg ctgtcgcgcg cgcagcatgc ggcggtcgcg gcggggcgcg cgccgggggtc 180  
 cgtgcgcgtg gtggcggtga gcaagaccaa gccgggtgcct gtcattccggg gcgtctacga 240  
 cgcgggccac cgctgcttcg gcgagaacta cgtccaggag ctcatcgaca aggcgcctca 300  
 gcttcctgag gatattgagt ggcaattcat tgggaatctg caaagcaaca aagccagagc 360  
 cctacttgct ggctgacca accttgatat ggttgagagt gtcgatgatg agaagattgc 420  
 taaccgtctt gatcgagtgg tagctgac 448

<210> 35011

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E11

<400> 35011

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 ataccctggg accgaagaag agaagatgcg agctgctgtt ggcaggtttg gcctatcagg 180  
 aaaggcgcag gtgatgcaa tgaggaatct ttctgatggg caaaggagcc gtgtcatctt 240  
 tgcattggtg gcatataggc agccgcaact gctactgctc gatgagccga caaatcattt 300  
 ggacattgag accattgact ccttggcgga ggcaactgaat gagtgggatg gtggttttgt 360  
 cttggtgagc catgatttca ggctgatcaa ccaggttgct caagagattt ggggtgtgtga 420  
 gaatcaggcg gtgacaaggt gggaaagtga tatcatggat tt 462

<210> 35012

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E12

<400> 35012

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 aagggcggat gatgttcggc ttcgggcacc acggccacca cggccagaac ccgtcggcgc 120

acggcggcgt gcaccagccc accttcaaga ttttctgcaa ggccgacgag gggacttgcc 180  
 tcaccgtccg cgacggcaac gtggtgctgg ccccgccaa cccgcgcgac gagcaccagc 240  
 actggtacaa ggacatgcgc ttcagcaccc aggtcaagga cgaggagggc aaccctgcgt 300  
 tcgccctggc caacaaggcc actgggctcg ccatcaagca ctccctcggc cagtcccacc 360  
 cgggtgaagct ggtgccgttc aaccggagc accaggacta gtcgggtgctg tggacggaga 420  
 gcggcgacgt gggcaaaggc tttcgctgca tccgcatggt gaacaacat 469

<210> 35013

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E4

<400> 35013

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 caggttcttc agctctctct ctgtccgtcg acacaccaag ctagccatgc aggaggagta 120  
 tgggtacaac cgtagaagag agagagagag agagagagct aacaccacc accactgtcc 180  
 ctagctagct tatttacagg cgttcgtgat caccaacagc ttctcgtgag aaagagtgca 240  
 acgggccggc cgggcagaag aggtagctgg gagctagaga gaaaaaaagg gtgcaccgag 300  
 ctaccacgc caggaggagaa gggaggagtg agccatcagt cgacc 345

<210> 35014

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E6

<400> 35014

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 acaacaagcc accagttcca ttccatccca ttctttcaga ctacactgc acacacaaca 180  
 ttacaggca ccataacgat taccatgcaa caacatatct tgtccacttc ttaggacaga 240  
 cttataaagg caccttttca ccttaca 267



<210> 35015  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-D1  
  
 <400> 35015  
  
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 ctccgtatct gctatcaggt tataaggtat aagctgtgac aatcattgat atgaccatta 180  
 gcatcatgaa tgataacata taggcttctc tgactgcgca tgacaaagta tgcattctat 240  
 caactttgca tgcgaactga cacagaattg caatggttga tgattgaa 288

<210> 35016  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-E7  
  
 <400> 35016  
  
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 cgggtgcgtg ctctacagcc ccagccccta cgtgaggaag ctcttcacct tcaataacat 180  
 gaagggcggg cactacaaca ggtccttccc ggtgaccgcg cccgacgagt acgcgctctt 240  
 cttcgccaac tgcgccccgg ggtcgctcgt ctccatgacc gtccgtaccg agatgtacaa 300  
 cgtcggcgcc gacggctcca aggactacct ccccgtcggg caggcgcttg ttgccgtcat 360  
 ccacggcgtc ttcgcgctct 380

<210> 35017  
 <211> 480  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-B12  
  
 <400> 35017

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 ctagtaaaga agtggcagac attgattgaa gcccatgttg atgtcaagac aaccgacaac 180  
 tacatgctgc gtttgttctg cattggtttt accaagaggc gcccaaacca ggtcaagaga 240  
 acctgctatg ctcaggcatc ccagattcgg cagattcgcc gcaagatggt tgagattatg 300  
 atcaaccagg cttctacatg tgaccttaaa gaacttggtt ctaagtcat tccggaagtt 360  
 attggcaaag agattgagaa gtctaccttc agcatcttcc cacttcaaaa cgtcttcac 420  
 cgcaagggtga agatactcaa agcccccaag tttgatctcg ggaagttgat ggaggttcat 480

<210> 35018

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B2

<400> 35018

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 tagacttcgt cggtaggggtg ctcttcgtcg ccgctttcct cctatacgc taccaggagt 180  
 ttaatgaatt cgggtgctgat ggtggaccag cagctaaggc ctttcggtcc aaattcaacg 240  
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<210> 35019

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-B3

<400> 35019

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 atggcaccgt ccagtacca aaccttttga acaacctgca cgaaagccgt attgtcaaac 180

tcagtgggta tgagtcaagg gttatcttgc ttctgggact catatataat ctacacttgc 240  
caacac 246

<210> 35020  
<211> 371  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-010-Q1-K1-B5  
  
<400> 35020

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tatccaaatt actgtaaagt cttgagttca acattaagct caataatggc ctggacagag 120  
aaaagacttc tggcatatca tgaaaccttc aatacatgta atatcgagtc tatgcaaggc 180  
attgactcca ttggagtgtc agctgcaaga atccttggtg aatatatatac tcacgaatac 240  
cgccgtacaa gaaaagaata gactgatgta gcccgagca tggatatagac atacataacg 300  
tcttcactaa ggacagcttt tgctcaaaga atggaagaag cagattcata acggtcatca 360  
agaaacccta c 371

<210> 35021  
<211> 266  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-010-Q1-K1-B6  
  
<400> 35021

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ccacaatgcc gcgccatctc gcgctgctcc tgcccctgct actgctggcc tcgccagcgg 120  
ccacgcgcct ggcgttcgcc ggctgcccgg gctacaagtt cccggcaggg catgcatacc 180  
cttcgtgccg ggacctgccg aagctgggag cgtctctgca ctggactgta cgacgcgttc 240  
aagagctccc tgtcagtggc gttcgt 266

<210> 35022  
<211> 418  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-010-Q1-K1-B7

<400> 35022

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agttcggagc actcagccat ggccattgcc ggcgctctcc tctctctgct cggactcctc 180  
gcgcggggagg ccgctgccg cggttggcag agcgcgcacg ccacgttcta cggcggcggt 240  
gacgcgtccg gcacaatggg cggcgcttgc gggtaaggca acctgtacag cacggagtac 300  
ggcacgagca cggcggcgct gagcacggcg ctgttcaacg actgcgcggc gtgccgggtcc 360  
tgctacgagc tgcggtgcga caacgacggg cggtggtgcc tgccggggcac cattaccg 418

<210> 35023  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B8

<400> 35023

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cgaggggtccg gcgatcggga tcgacctcgg caccacctac tcgtgcgtcg gcgtgtggca 180  
gcacgaccgg gtggagatta tcgccaacga ccaggggaac cgcaccacgc cgtcctatgt 240  
cggcttcacc gacaccgagc ggctcatcgg cgacgctgcc aagaaccagg tcgccatgaa 300  
ccccaccaac accgtcttcg atgccaagcg gttgatcggc aagaggttct ctgatccgtc 360  
agtgcagagt ga 372

<210> 35024  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B9

<400> 35024

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tccggcatgg aatgaaccta acccaggggc catatgggta aaactgtggg caaggccaag 180  
gaacaaccgt acaacacttt tttatttcaa cggtaatcta tggttcagcat acgaaagagg 240  
ccgtccagaa gacacgtata gcatggggat tccggcaaaag ctagcagctg aatttggttc 300  
cacaccaaac aagcaaggaa gccttggact gcaacatgcg gccgatgtga cagttaccta 360  
tttacgaact gagaaatatt atgaagaact agcaagctct gatttttgtg gtgtcctgcc 420  
aggggatggc tggaatggcc gtatggaaga tagcatg 457

<210> 35025  
<211> 189  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-010-Q1-K1-C1  
<400> 35025

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taaataaata gtaaagtcca acattcccat aagtaaaacc aacaaaaaca actaaacaca 120  
caaaaaacta caaaaaaaca aaaaaaaaaa aaatccaaaa aaaataacaa aaacaaaaaa 180  
aaagctcca 189

<210> 35026  
<211> 413  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-010-Q1-K1-C10  
<400> 35026

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aggccttcgt ctaaaaggcc tctctgggtc atcgtgttgg ttgcatttgt ctgtgcagta 120  
gccattggag cctaccttta tactccacgg cattacacag catgttatct ggtaccatca 180  
gaagcctgca attctcggcc tcctccagaa cctgctaggg tatacactga tgatgagatc 240  
gctgctcgtg ctatcatgag agacatcatc cgggcacggc cagtgcagtc aaagaatcca 300

aaaattgctt tcatgttctt gacgcccagt tcattgccat ttgagaaact gtgggaaaaa 360  
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<210> 35027

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C11

<400> 35027

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 tgcgcgtatt ccccgacgc gagagcggac tgcacggcag agcctgcgcc gactacatgg 180  
 tcgtcgccac aagccgctcc gattggcaca ttcgtaacat cgcgcatgcg ctccctctaca 240  
 agataaacca aaagcagaag gtctctgata gaatattgat gccaaagtga aaacgtcagc 300  
 aagcgggaaa atgagctgctc attgattctg gaagcataat catccatgca cttgaagaat 360  
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<210> 35028

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C12

<400> 35028

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 ctgcctatc ttctcggccg atttcgttcc ccttcttgcc attcttctct catttctcac 120  
 caccgccgcc gctacccctt ttctacaaca ccatgaggga gtgcatctcg atccacatcg 180  
 gccaggccgg tatccacgctc ggaaacgcgt gctgggagct gtactgcctc gagcatggca 240  
 ttcaggctga tggtcagatg cccggtgaca agaccattgt gggagggtgat gatgctttca 300  
 acaccttctt cagtgagact ggcgctggga agcacgttcc ccgtgctggt tttgttgacc 360  
 ttgagcccac tgtcatcgat gaagtgaaga ctggcaccta tcgccagctc ttccatctctg 420  
 agcagctcat c 431

<210> 35029  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C3

<400> 35029

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ctcttgcatc tggatcagtc tttatctgct ctagctctag cctctatccc tatctagtat 120  
ctagccactc ggctcgagtag tcatcagcct tctgacgctc acccatggcc actgccgaag 180  
tccagaccc 189

<210> 35030  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C5

<400> 35030

cccacgcgtc cggccagatt gtttccttga caggaatgac tacaaggaca acgggttcgt 60  
acagatcatc tccaacgccc tcggtatgaa gtcacatggac atcctcaaca agtcaaata 120  
gatcagtcctc ttgttggatt tcatttctag cctacccgat ggtgagagca agtgaacgca 180  
tgcgacacttg gaggagacaa cgtcacatga taaggttggt caaggcggtg atcaagtgga 240  
cgtagcggct tatcgacaag catgttttgg tctgtagag ctactacatg aaagtttttt 300  
tcgctcagat acatctccat tttgttctga agtcatatt tgggaatata taagaatcga 360  
aaggggaaa 369

<210> 35031  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C7

<400> 35031

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aaccattgga caatatttgc tatgagaaaa gatctgaaaa cagcccgcca ttgtgcaagg 120  
aatctgatga tgcagatgct gcttggaatg taccgttgga agcatgcatg cacaaactgc 180  
ctggtggctc aaaagtccga ggatcaaaat ggccagagtt atggccgcaa aggcttgaga 240  
agacccttt ctggattgat ggttccaagg ttggtgtcta tggaaagcct gcaaataag 300  
atcttgaggc agataatgcc cactggaaac gggttgtaag taaatcgat gtgaatggca 360  
tgggaattga ctggtccaaa gtgagaaatg tcatggaca 399

<210> 35032

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C8

<400> 35032

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gaaaaaaaaa aaaaaaaaaa aaacaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aacaaaaaaa aaaaaaaaaa aaccaacccc ccaaaaaaaaaa 180  
cacaaatcaa caaacccaac aaacccaaaa ccaacacctt caaaaagaca ccccaaaaca 240  
aaaaacccgc cccctcttta aaaaccaaca taccgaaaaa aaccctgctt caaccaaaaa 300  
aaaatacctc aaaaaaaacc cccttaaac caacaaacaa aaaacaaaaa acccccaccc 360  
aaaaccccct ccaaaaaaat acccaaaaaa aaaaacaaaa aacacccccc caccaaacca 420  
ccaaaaa 427

<210> 35033

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C9

<400> 35033

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agtaaccatt ttttgaagag aaacatatct caattttccg ggtttgtttg gacagacaat 120  
caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180



ctagatTTTT gtgaaattct ggacgttatt gtaaaagtaa ctacaaagaa tgaagaagtt 240  
tctgccaaagc tcttggaatt tttagagtct ccttgtgtta ccagggatgt tattctcact 300  
gataaaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcatga ggtaacttct 360  
gaaggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaagatggt 420  
aaagagaatg atgatgggga tgatgctgat cttgctgggt c 461

<210> 35034  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B11

<400> 35034

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gctccaaata tgaaatTTTT tcacttttac aagctccaca actttgatat atggactttt 180  
caciaattct caatggattt taaattccac ttttgagact aatttatact ttcaaagtgt 240  
actactatTT ctccaaacca cctctcaact ttgatccacc actaaaagca aagtactac 300  
ttaatcaaag atccaacttc ggtactcaca acttatggcc aaaaaggccc ttatttatgg 360  
acttgctttg attatgcacc atttactct tgggctcaat ttatggtttt gaagtccatc 420  
cctctcctta agcgatcctt tcacttgatt tacac 455

<210> 35035  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H1

<400> 35035

cccacgcgtc cgcacgaat cgtctcactt ttgtctgcc tgctcatact gcttgccctg 60  
gccgggtcgt ccacccgcaa cgcacaggag gattccatgg ccaacaacac cgggacgttg 120  
gtgggcggca tccaggacgt gccggttagc gagaacgacc ttcacctcca ggagctcgcc 180  
cgcttcgccg tcgatgagca caacaagaag gccaatgctc atctgggggt cgagaagctt 240

gtgaaggcca agacacatgt ggttgctgtc acgatgtact atctcact 288

<210> 35036  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H10

<400> 35036

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atgaagctta tgtgtatgac aggcttggca agctatatga caagtacagc gattatgtca 120  
cagtctgagg acaaggaacg tttgattgct aagcttcatg atgttgtaga ctgtctctat 180  
gaagatggct agcatgaaac taagggcgta tatattgcta aactactaga acttaataaa 240  
gttcgtgatg ctattgatgc tcgctataag gaatgtgaga ttagaaattc tgatgttagt 300  
caactgatat actgcatcaa tagcttcata gaatctgcac agtctaccga ccagaagttc 360  
tgacacatag acatgtcata aaagcgaaag gt 392

<210> 35037  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H11

<400> 35037

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tgtggtgaag aaaatcacca tgacatccag acagtcttga ccaacgggtga cacttcttcc 120  
aatggagctg acaattcagg tcccaccaag gatactgagt agctgaactg cagcttgcctg 180  
catcgctaac cacaaaggcc caagttatta ctttttgcag acctattttc agttctagcc 240  
cctcccttcc catttcgatt ttgtttgtta agtcctcccg atctgtatctt attaacttgc 300  
atgatgcggg tcaccgaaga cttaggctgc tgcagaagtt ttgtctctgg cggaagcta 360  
tatgcaagag ggtggtaccg gttcgttccc cagaatctat gtgcttgta acctgaaggc 420  
cga 423

<210> 35038

<211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-H2  
  
 <400> 35038  
  
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 gggccggggtc gatcaccctc aacgcacagg aggattgcac ggccaacaac accgggacgt 120  
 tgggtggaccg catacaggaa actccaggca gctagaacga cacttcagct ccaggatctc 180  
 gcccgtttct ccgtcgagga gcacaacaag aaggacaatg ctcttctggc gttcgagaag 240  
 cttgtgaagg ccaagacaca agtggttgct gtcacgatgt actatctcac tattgaagtg 300  
 aaggatggct a 311

<210> 35039  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-H3  
  
 <400> 35039  
  
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 ggatcagtga tgcgaggggc aacaagtcga gagatcaggc agggcaccat ggggcgcggg 120  
 aagggtggtgc tgcagcggat cgagaacaag atcagccggc aggtgacctt cgccaagcgc 180  
 cggaacggcc tgctcaagaa ggcgtacgag ctctccgtcc tctgcgacgc cgaggtcgcg 240  
 ctcgctctct tctcccacgc eggccgtctc taccagttct cctcctctc caatctgctt 300  
 aagactctag agcggtagca gaggtacatc tatgcttcag tcgatgctgc agtgccatct 360  
 agcgatcaga tg 372

<210> 35040  
 <211> 128  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-H4  
  
 <400> 35040

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 ttacgatcta ttttggccta gctagtccag gcagtacaaa gcgccaaact gctgaagaac 120  
 atgtgcta 128

<210> 35041  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-009-Q1-K1-H5  
 <400> 35041

gcgctcactc gatgcaaaaa actccatgga ttttattgct gctatgcttc gctggtggtc 60  
 tctgcttgag aaatttagct gcagtgcac aaagctgcac ctgaagcctc ggaggttcaa 120  
 aacatttgta gaagcattgg gaaaacaact gctgaaggac agaaataagt ccaggaaaaa 180  
 gcattcacga gtggatatgt gcatacttc tccatctcca gttatcagca aggctcctgg 240  
 ggatgagact cctcctgtaa agttcttgct aatagattcc caaaatggta gcagagtagc 300  
 atctcctaaa gggacaattt tcaagcggat tgcagaacca atttctaaca agtcaagaac 360  
 aactagaggg gacctctttg ccacaagaac cgtgaaaccg aaaaggaaag caagtgggtc 420  
 ttgtgca 427

<210> 35042  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-009-Q1-K1-H9  
 <400> 35042

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 cattcttcac cggttcaccc tagccgccac cccaaccccc agcgacaggg accttcgccg 120  
 tcaggccgcc cccaatccct agcgactgcg agcacgctcg ccaggcgccg tgcagcgagc 180  
 gtcgcccct ggccaagtgc cgcgactcgt gccctgcagc gagcgccgat gtcccgccac 240  
 caccgtcaaa cggctgccga tgcccaacgc cct 273

<210> 35043

<211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-A1  
  
 <400> 35043  
  
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 tcgattcttg cactcatcgt gtccttcttc attaacatct gtgtcacaaac tgtttttgcc 180  
 aaaggatttt atgggtctaa acaggctgac agtataggtc ttgagaatgc tgggcagtag 240  
 ttacaagaaa aatatggaac tgcattcttt cccatcctct atatctgggc tgatgggttg 300  
 atagcatctg ggcagagtag cacaattact ggcacatatg caagacagtt 350

<210> 35044  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-A11  
  
 <400> 35044  
  
 aataaactaa caggtaacaa ttagtttgag gttcaatata taactactag cgccagacaa 60  
 ttctaattct taactcatca tcatccatca cttcattccc aacttcttac cactcccaac 120  
 cacatctatc cactacgctt cattctatga tattactcac ctctaataca tcataataaa 180  
 cttcaaccac cacaacaacc catcaaactc cacttcaatg ttcttaaata ttctgatcta 240  
 caacacatca tctctcccaa accaacaatg ctttctgctg ccttttatca ttcca 295

<210> 35045  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-A12  
  
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attaaaaatc ggttcaagct ctagccatgc aacttatcga gcctgaccat caccttgctg 180  
 ttccagtacg gctgctaact catatacgtg ctctgtctca tcttgacga ctactgagac 240  
 agcgacatgg tgtaggccgc cctcaagcat gacaccttac tacactagga gcacgttcac 300  
 gaatactggg gctgca 316

<210> 35046  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-010-Q1-K1-A4  
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 aatcaagatg agccgtggtg gtagtgccgg tgggtggtaa agttctctgg gttatctctt 180  
 tgggaagcggg gagccccca aaccagcagt ggcaccagct gcaagtgtc cacctgttga 240  
 gaaaccatct gctgcaaaga ctgatgcggc caagccatgt gctgctgggg gtaccagcca 300  
 aaccaataac taccacaggg ctgatgggca ggacact 337

<210> 35047  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-010-Q1-K1-A6  
 <400> 35047

ggggccaaca gtggtgccgg gttccgatta cgccaagggtg cagcgtgccg tgtgcatagt 60  
 ctccatctcc accagcgtca tccaggtgtt ctcccgcatc aacagtaatt tcgacctcat 120  
 gtacgccaag cgcgcgttcg tgcactggta cgtcggcgag ggcattggagg agggggagtt 180  
 ctccgaggca cgcgaggacc tggccgccct ggagaaggac tacgaggagg tcgccgcaga 240  
 gggcggcagt gatgacggcg acgaggagga ggaatactga tctgcttgca tgaatctgtt 300  
 tggctgtcga gccaggttgt ggtgttgaaa aacctttgtt tgtgtctctg gtaatgtttg 360  
 ggtgttt 367

<210> 35048  
<211> 357  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-010-Q1-K1-A7

<400> 35048

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tgggggcgat gcctttgttg ctggagtgtg atctcaatta gccacagact tttctctgct 120  
ccatgatgaa ggtcggttga gagaagccct gaagtctgca aacgtctgtg gagcttaacc 180  
ggaccagaag gcgctattct gcgctgccac cgacaacatg ctgaccctga caattgtgct 240  
gaagtaccct gcaccactac ttgtggggta tgtgattatg aaccgcctga gcgccatgtc 300  
gatagattac aggcgtgatt tcgcttgcac accacttggc atttttgttg gtgcgta 357

<210> 35049  
<211> 66  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A8

<400> 35049

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ccgtat 66

<210> 35050  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A9

<400> 35050

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gatcctgac ggcccgaatg tctcctaacc ggacgatatc atcacctcgt accatatacct 120  
gacactgaag tggcacgctg acaagcactc gccgtcgtac aggccgtaag cctatgcgcg 180

cttcaaggcc atcagcgagg cctactacgc gtccttggac catcaagaca acaggtgcg 240  
gttctagctg tgcaacaacg gtcgtacggg tgataggact cgcagcgct tgcgtggcg 300  
acacggctgc catggccgag gatgaggatg 330

<210> 35051  
<211> 372  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-010-Q1-K1-B1  
  
<400> 35051

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atccttacta atccacaata ccactggaag gagttcaggt tcacattcaa ggaacctgcc 180  
aaagatgctg aggacttctg cgcgatgctg gttgggttag aggaagagtg tttgcagacc 240  
gtgaagagct gcagcgggta cggttgacaa cccacttgca aggttcacat tctaggaacc 300  
agccaaggat gctgaaggac tctgccgcat gctggttcga ttagagggat tttgcaacgc 360  
gtgaagagct at 372

<210> 35052  
<211> 204  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-010-Q1-K1-B10  
  
<400> 35052

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gggacggcac gttatggtat acaccgcaat taccctctat gcgctctcta cgtcatcact 120  
tgcaatatgg acttgagaca tgaccttgac taaatatcat ataaaatgtg aagcaatgtc 180  
catataaaat ttcaggtgca tatg 204

<210> 35053  
<211> 277  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3069-009-Q1-K1-F3

<400> 35053

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ggggggcggg cgcgttcatg tgccctcatga gcaaccttat ggctctaate ttcgcgtcgg 120  
actggacgag gagcagtctc tgccggcaca tccgccaccc cggcgtgtgc agcgtctgca 180  
ccagcgactc cggccgggctc ggcaacaagg gcgcggtgtc cgtacggatc ttgctacacg 240  
gcacgagctt ctgcttcgtc tgctgccacc tgtgcct 277

<210> 35054

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F4

<400> 35054

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gggtgggactt taatatcagc gaaatggggg tttctgcgta cctttgttat atggctatgt 120  
atctcatttt tgtggagttt ggaatttact ggatgcacag agagttgcat gacataaagc 180  
cactatacaa acatctgcat gcaaccacc atatttataa caaggagaac accttgtctc 240  
cgtttgcgtg acttgcgttt caccactgg atggtattct gcaagcaatg ccgcatgtgc 300  
ttgcgtctct cctcttccca acgcacttca ggacgcacat cgctctcgtg ttcttggagg 360  
gcgtgtggac gacaaacatc ca 382

<210> 35055

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-009-Q1-K1-F5

<400> 35055

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ctgcaaaaag gagtttgtca tggcgtctaa gcgcatcctc aaggagctga aggacctgca 180  
gaaagacccc cccacatcat gcagtgcagg tcctgctggt gaggacatgt ttcattggca 240  
agcaacaatt atgggaccac ctgacagtcc ctatgctggt ggtgttttct tagtgaacat 300  
tcatttcccg ccagattacc ccttcaaacc tccaaagggt tctttcaaga caaaggctctt 360  
ccatccta atcaacagca atggaagtat atgcctngac attctcaaag 410

<210> 35056  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F7

<400> 35056

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cgggcgcaca tgcgctcgag gcatgataga gatagaggcg gtgagcaaaa ctatggatgg 120  
gaaagaggag gacgtgcgcc tgggcgccaa caagttctcg gagctccagc ccatcttgac 180  
ggctgctcat ggcgtgctg acgactagga ctacaaggag ccccgctcg cgccgctgtt 240  
cgagcccgga gagctcaagt cctggctcct ctactgcgcg ggcacgtcg agttcgtcgt 300  
catcttcctc ttgctctaca tcaccattct caccgtcatg ggcgtctaca agttcacctt 360  
c 361

<210> 35057  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F8

<400> 35057

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gcagatcagg ctatcgagga cgcagccccg gaggacgggg tggacgagga tacagtgaca 180  
aatgttgatg tcagtcctga ggacatgaga agcatcattg aagttatagc tgacaccgga 240  
aagttctggc atgactggag gttcctcaag agtgtactgt ctattcaatt gaagcaggtc 300

ttggatgaat attttgaggt tgaaatgggt agccaaaatg atgggcaact gaggtctttc 360  
tcagagctat ttagtcggct aaatgggtgcc cttgaaaggt ttgaagaggg tcctccattc 420  
aactgcaaa agctttgtga gaatttggtg gatccaa 457

<210> 35058  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F9

<400> 35058

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ccaatccctt gacaggctgt tcaacgcctt cccctgcag aagaaccc 168

<210> 35059  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G1

<400> 35059

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tatgtatctc atttttgtgg agtttggaat ttactgcatg cacatacagt cgcgatgacat 180  
aaagccacta tacaacatc tttatgcaac ccaccatatt tacaacatgg ctaacacctt 240  
gtctccgatt gctggacttg cgtttcaccc ac 272

<210> 35060  
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<212> DNA  
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<223> Clone ID: LIB3069-009-Q1-K1-G10

<400> 35060

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 tatgccctgg agtcacccaaa acacttgaca tcgaaacgga atgctcttac tgacctactg 240  
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 aaactgtagt gctagttgca cggcaatgct attgtaacct ggattggaat gtatacatct 360  
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 ctgattaacg c 431

<210> 35061  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G11

<400> 35061

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 ggcgctgcct taccaggcat ctggagtcga cgtgacgacc gtactctcgg tgtatcccaa 180  
 cttcgcgga c tttgcgcgta tgatggcata caccacgctg gtcagcgagc tgtcctggag 240  
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 catagctagc gccagcgccg acattgccga cgtgctgaag tatcacgttc tgctggagta 360  
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 tcaaa 425

<210> 35062  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G12

<400> 35062

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ggccgctgtc gcgtcgtgtc tgcgaagaat ggaggaggcg gaggcacaa gcagtagtac 180  
gacttctggc taattgagcc catcatgttt agtgggtgccg gtagagacga cgccgtcgtc 240  
gtcgtccac tcaagaacat gggcaggcga gggagctttc gttgtgggaa tcagatttga 300  
agcggcgaga ggtgggtgggt tgtgcttgat cgggtgggtg ctcatgcctt ctgttttgtg 360  
gctgtaggat atcaagagga ggaaagaggc gctgaagaat ggtgcagatc cacatttgtt 420  
tttgcataat tgct 434

<210> 35063

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G2

<400> 35063

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tgatagcaca catgtgctgg aatgaaagat actattgatt gtgcaaaaat tcatgaaaac 120  
ttcttgctat ccagaaaata atcgatttca tacatcaatc ataacacgta tcatatttct 180  
tatttaaaaa aaaaacacaa tacaacatt taaatacaac ccacca 226

<210> 35064

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G4

<400> 35064

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tgatggtcgg ctaccagtta ggcggtaaaa aactcaagg acaactgaag agagaaaaca 120  
acaccaagca cagtagtaaa ccgttttgac agacaaggca gcagccgtcc ggtaccgggt 180  
acatattaat tgaccatcaa cacattgcat cagcagcctt catggcctgg ggagggaaga 240  
gaccctgtga cccctctttt gttcaccttc acattcttgg agattcgtca gtcagctcag 300  
ctcgtgtaat tcattgcagc agccataggc cgtagcagca gtctgtacca tgatcaggat 360  
cacttgtaac catgattcat tcaattgtta ctgacagccg ggattttcat tctaaa 416

<210> 35065  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-G5  
  
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 gatgtcctcg ggatgggtgtt cgccccgatt ccgttccagc cggagggtctt tcttctcgcc 180  
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 gctggttttg cagccaccat atccgacttc ttcaggctga tggctcttccc tccactagac 300  
 ccaaactctgc tagaagaatt tgacactcag aaagtaagtt ggtaccata caagcatttg 360  
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<210> 35066  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-G7  
  
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 ggctccaaag aattatcagg caatcagtac tataagccac atctcatttg ccgaggaaga 180  
 aagcatctct ccaaagaagc caacttcgat agcagagggtc gcaaagcagc gcgagctaata 240  
 cggcacgctt ctgatcgagg acgacagcaa gatgaagagg cagatatcgg acctgaaatc 300  
 caaggagctg agcgggtcact acatcttttg cccttcggag gatc 344

<210> 35067  
 <211> 404  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-G8

<400> 35067

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ggagtgggtg cgctacatgg gcggcctacg gcacagcacg ttccatcagc acgcgctgga 180

ccgcgcgtgc acatcgtact cgctcgtcgt cgacgcgaac cctgcgttcg gagacttcac 240

gaccatagat gccgccgtcg actcgtccc agacatgaac ctcgtagcg tgcctatcag 300

ggtcaaccgc agcacctaca ctgagaaggt gagcatctta gcgatgcgcg cgtgcatcac 360

cgtggatggc gccggagcgg acagcacgat cgttcactgg ggcg 404

<210> 35068

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F2

<400> 35068

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ggggatgctg ctattcaaca agtgaattgg gacacctcaa aagtgaagga taagcttaga 120

cgtgacattg aggctcatgt agcttcagtt cgagctgcta aattatctga actttgtgcc 180

aaatatgagg cacaacttac caaagctctg gcggaaccag ttgaatctct tctagattca 240

gccagtgaag atacgtggcc agctattaga aagcttcttc aacgcgagac aaaaactgcc 300

gtttcaggtc ttcaatctgc tgtgtcagct tttgaacttg atgaagcaac tgagaaagaa 360

ctgcttgtga aagctgtaga agcatggaat gaagtgtgtt gtagcatagg caaaagaaga 420

agctggaagg gtt 433

<210> 35069

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D7

<400> 35069

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ttacgcgaag ggaaatggcg accgttccag gggatctgat ctggcagatt gtgaggaaga 120  
 acatctcctt cctggtgaag cagtttggca acggcaatgc caaggtgcag ttcaccaagg 180  
 agcccaacaa cctctacaat ttacactoct acaagtactc tggcttagca aacaagaaaa 240  
 ctgtaacgat ccagccagct gctggaaagg actcggctgt ggtcctctct actaccaaga 300  
 ccaagaagca gaacacaccc gcgaagctca gccacaagtc tgtgatgcgc aaggagtccc 360  
 gcaagatggc caaggctgtg aaaaaccagg ttggcgacaa ctattacagg cctgatc 417

<210> 35070

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D8

<400> 35070

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 ctcatcgggt atggaacatt acattagttt cccgtgacaa aaaaggacat gagggaaaaa 120  
 acgatgaaga tacaacaaga aatcgaaacc ttctcatgct gttagattgg ttaactgacc 180  
 tacacaatth gtcaaacaac tcaaccaagc actacgtgag ggccttatta tacaagtgtg 240  
 ttcaagcaca tataacagct tgagcgacta gaatcatgcy cgagctcatc tctaagcttt 300  
 gagctcttta ttcatctacc ctccaccgtg tgtatgctat ctatggccag catatagtgg 360  
 cagtaccgta tgaatgtgcy tgcatgccat ac 392

<210> 35071

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E1

<400> 35071

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 gggacgtccg tgggtggtgt ggagttggat cggctgtgct tgttcctcgc ttcttgctgg 180  
 atcagaggag gtcatgatca actaatgcct attcatttat tatggacttg caccagttgt 240



taaagtacag attaactggg gctaactgtc actacgaatt tcctacagag aacaacttag 300  
 caaacactcc ttggccagct agtccactga agtctgagtt cagcagctca tcatacactc 360  
 ctctttttatc ccagcttgag tgtgataatt t 391

<210> 35072

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E10

<400> 35072

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 gtcggtggc cagttccacc tgcgctcgat catctctgaa ggtgtacggg cccgtaacat 180  
 atgcccattc gtctcatctt atgaaaggag atttgccaca aggaactaca tgaccagag 240  
 cctttggggc ccttcaatgt ctgttagcgg tggcatcaat gtcccagtga tgcagacccc 300  
 gctctgtgct aatgctcctg ctgagaaagg aggcaagaac ttcattgattg atttcatgat 360  
 gggcggtggt tcagctgctg tttcaaagac tgctgctgct cccatcgagc gtgtgaagct 420  
 gcttattc 428

<210> 35073

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E11

<400> 35073

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 cccccgccga ggccgaggcc gaggccgagg ctgctgctcc tgctgatccc gaggagcttc 180  
 ccgcggccga gcagcaggca gccgccgagg cggaggccgc ggctcctgct ggtgccgagg 240  
 agcccgtcgc ggccgaaccg gccgccgagg cggaggctgc tgctcctgct ggtcccagg 300  
 agactcctgc ggtcgagcag gatgcagccg ccgaggagga agctgctgct gctccttctg 360

ctggtgccga ggagcc

376

<210> 35074

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E12

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gggccaggag aatttctcat gagtgatttc ttcaagttcg accgccacc ttttgtgcat 180

ttggcctttc aagctttgga caagtttatg actgaattga cacgatttcc tattgctggg 240

tcaacttatg atgtt 255

<210> 35075

<211> 396

<212> DNA

<213> Zea mays

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<400> 35075

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agacggaatc tatgcggttt aggcgtgcac ccatatcctc aaccacccta gctgggctca 120

gctttcttct atgcactact ttgatccctg gtcgttactg ttacttgagg tggttttgat 180

ttgtttgggt gtggctgtgt tcttttgctc ctggtgcatt tgcaatcttc tgacctgtga 240

ggggcggtgt gtttgtatta cattcttctt aatgcaatga tgtgcatttc tcccgtgtat 300

ttgagaaaaa agtataaata agatgggaaa taagatacct ttttttgta tctttcccaa 360

aagttttttt ttcttgagaa acggaatagc tgtatt 396

<210> 35076

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E3

<400> 35076

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gcacctgtta agaacttttt tggactgatg tcttttgcac ttgtcgtact tgggatctat 120

tggttttatc agtatatgaa gtcctggaga gaggttcttc cacttcagaa ctgtattact 180

cttgtgatta cactgggcat gtttgagatg gcattgtggc attttgagta tgctgaattt 240

aatgagactg gagtacggcc aaaaggcatc acattttggg ctgtcacgtt tgcgactgtc 300

aagaggactg ctgcttgaat tattgttctg attgtctc 338

<210> 35077

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E4

<400> 35077

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atgggcaccg gtgcaggcta gaacgccaac atactacaac ccttgcatcg cagccgtact 120

gggccaagc cagcctagcc ccaatctgaa tcttgctgca gttggcctaa cagcatgatc 180

taatggagga ctagaaggtc cagaccgtat ttttgtgggt ggcctcccgat attacttcac 240

tgaagcgcaa gttcgggagt tgcttgaatc attcggtcct cttcgagggt ttgatcttgt 300

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<210> 35078

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E7

<400> 35078

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ttgctggtgc tgcoctcaact ggtgttggag ctgacggtaa caccaagagc agcagcagtg 240  
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ggagctcatt ctgagctggc accactgac aaagcacaaa atcgagcct tcagcgactg 360  
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ggacg 425

<210> 35079  
<211> 321  
<212> DNA  
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<223> Clone ID: LIB3069-009-Q1-K1-E8

<400> 35079

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aagtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 180  
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ggctgtttac gttgttgctt c 321

<210> 35080  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E9

<400> 35080

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caacggccgt gtccggcggc agcaccacgg agaaccat cctcacggcg ctgttcaagg 180  
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ggctggagcc accgccccct atcgccgggg tgccgatgga aggggagaag tggcggcagc 300  
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gggcggcgct ggaggaactc aggtccgcgc cgcacgccgg gggcatgaac acttgattgt 420  
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<210> 35081  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F10

<400> 35081

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gggacaacgt gccctgctcc cgccgcggcg ccagctacta caactgccag cccggcggcc 360  
aggccaaccc ctaccaccgc ggatgctccc gcatcacccg ctgccgcggc tgacgcgggt 420  
acggatcc 428

<210> 35082  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F11

<400> 35082

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gaccaacccc taccactcga gaatgctccc gcatcacccg atgcc 405

<210> 35083  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F12

<400> 35083

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cctcctgtcc ccctccaccc gcggcagccg cggcggcggc ggccggggacg acgacggcaa 240  
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gacgtccccg ttccgctccc tcctcgcact cgaggacccc aggtcctccg tcgactcgctc 360  
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gcccttggtc tgggtcc 436

<210> 35084  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D6

<400> 35084

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tgtttcttct gttccccgat cccacttca aggagaagaa ccacaggagg agggttatca 300  
gcatgcagct gttagacgag tatgcttacg tgatggaagt gggaggaatc atatatacca 360  
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<210> 35085

<211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-C10  
  
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 aagccctcag atgaaaagtg catTTTgccc aaatatattt catcagacgg ctgttcatgc 180  
 tcaaaatcct cctcatgcaa gaccaacaaa tgcgagtgc gaggctcagg tgcacaatgc 240  
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 gccaatcagg gagccatgct tcttcagaac gcgttttctg agaaggattc ccaagatgca 360  
 tagccaagga agcctttgat taacattggt aataatatgg ttaaccaaac tgccgagaca 420  
 aa 422

<210> 35086  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-C11  
  
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 ctccggcaag gagggcggcg agaagaaggg gaagaagaag gccaagaaga gcgtggagac 240  
 ctacaaaatc tacatottca aggtcctgaa gcagggtcac cccgacatcg gcatctcctc 300  
 caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tcgccggcga 360  
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<223> unsure at all n locations  
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 ggcggtctgc gcgctcggcg gcagcatcct ggaatcggtc accgtggcat gccccgacca 180  
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 cgccgccacg cgcgccatcg gccgtcgtc ccgtcgtccg ctcgngagc gcgtncacat 300  
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<210> 35088  
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<223> unsure at all n locations  
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 gcacgctttc ctggaggctg cgcgcgcgg cgacctcaa tccctcaaga acctcgtcgc 180  
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 caagcgcacc gtcctacact tcggggcgat cggatgtcgc accgacgtct gtgaattcct 300  
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<210> 35089  
 <211> 343  
 <212> DNA  
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<223> unsure at all n locations  
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 gagaggagag gaggggaggg gatcggctcc aagggaacag gtgagatggc aatcctgtac 180  
 gcgctggtgg cgcgccggcac ggtggtgctg gcggagcaca gcgcggcagc caccaacgcg 240  
 ggcgctatcg cgcgccaggt cctcgagcgc ctccccgacg gcggcgccga cagccacgtc 300  
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<210> 35090

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C5

<400> 35090

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 ttgccaccgt cgtgtacctc gcctgggcat acacgcccgga gcccgtcctc cagtcaactcg 180  
 gcatcaccta ctaccctagc aagtactggg cactggcggt gccatcgttc gtggttgtga 240  
 ccgtggtgct gtccatgggc atctacatgg gcctcaactt cgctgccact ccttctccga 300  
 cttccttcag tactatcttc gatgaaaaga gtagggagca cacagccttt tttcctgcaa 360  
 ctgaagatga aaggcccatc gaaccatct cagacatcggt tattgatcgg atcaaacctc 420  
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<210> 35091

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C6

<400> 35091

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 ccgttctacg acaagaagga cgccgccaag ctctccgcgc aggcgcgagc cctagctgct 180

gtcccgcctcc cgggtccgcgg tcccccgctcg tgccaggatg ccggcacctc ccgcgcagct 240  
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<210> 35092  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-009-Q1-K1-C9  
 <400> 35092

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 ggggattgaa aatatctttc tccatactcg gatagaagtg tgcgtaacct atatactctt 120  
 catagtgtac tggttcatag tgggtggagtt catggaggac actattatgc ctttattcgt 180  
 ccgaagctgt ctgatcaatg gtacaagttc gaggatgaac gaggactaa agaagacatg 240  
 aaacgagcat tgtaggaaca atatggtggt gaag 274

<210> 35093  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 35093

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 aagactccct aacggacgcc catttctctc actattcaac tttaagcagg aactatcaaa 180  
 cgcaccaccg gagcttgta gcaggctatt accagagcat gctcgacggc attcaggatt 240  
 cggttcctta tttgggagtg gaccgtagcc cgtatgaaaa tctcgtttta atggtgggct 300  
 gctgtacgct gtcagagggc aatctgcata tcctaaatct aagttntaga acctgaccat 360  
 cttgttgaaa agttgccagc cttagaaaaa cccgaagtgg cctcttgtgt ccatgctctg 420  
 ccagtaacgg cacataatg 439

<210> 35094  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D11

<400> 35094

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cccttctgtg tcgcctgcct cgctcgtgctg ctgggtgctac atcatcatcc acatctgctt 180  
ccccctggga agggtagcca tgaccatcta cggcgcttctg gccaccgtcg agttctccgg 240  
cttcacgtgc tatgacacca acaagctgct gaagcgccac tcctacaacc agtacgtggt 300  
ctcagccatc tcctctacc tggacgtcat caacctcttc atggaccaca tggccatctc 360  
cttcacgtga tggattgaca gtctcacctg tacggctgta ccccatgcat gacgggccct 420  
ctcccgctc 429

<210> 35095  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D12

<400> 35095

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gagacttgaa agaactgcac tggcaccac agataccgtc gatgatcata tcaacggcaa 180  
ttgatggctt caacgtgttg atgcctagca acattgatac aaccattcct ggcagcactg 240  
atgcagcaat gccatctgct gagccacagc actagccaac attgatacaa gcattcctgg 300  
cagccctgat gcaatgccat ctgctgagcc atagcactga tgtaagcgtt tcttgtagca 360  
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gtgttg 426

<210> 35096

<211> 252  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D2

<400> 35096

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ttactaccta actaactccc atttcctcca ctattcaacc ttaatcaata tctatcatac 180  
tcaccatcat atctttccat cattctatta ccacatcatt ctctacatca ttttaataacc 240  
cctttcctta tt 252

<210> 35097  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D3

<400> 35097

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gcatcactca agcagctatt tcagtcaaag atggctgaac tgagagctga ggctaagcaa 180  
caatctgagt ctactggctc aattggacgt gcaaaaggag catctttgac cacatcacca 240  
cagcaacaga tatctgttac tgtagtaacg gaatttgctt gctggaatga ggaagccata 300  
accagatgca cactactgtt ttctcagcct actactgttg cagctaacgt gagatccata 360  
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aagagtttaa atg 433

<210> 35098  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D4

<400> 35098

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 tatgtcccca ggaagtgtc ggccacaaac aggatcatca ctgccaagga ccatgcctct 180  
 gtccagatca acattggcca cttggatgcg aatggcctgt atgatggta cttcacaacg 240  
 tttgtctctc ctgggtttgt ccgtgctcag ggtgacgcag acagctcctt ggacaggctg 300  
 tggcaaaaga agaaggctga tatcaagcag tagattttac atctagtta ccaagaattg 360  
 gacaccgtct ttaactatgt ttttgaattc atgtcactat atgca 405

<210> 35099  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C1

<400> 35099

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 agactgctgc ggacgatgaa aggggttggt tgctcggcgc cgttttcgct tggctgtgag 180  
 ctggtagcct cgtttcgcgc ttaccagag ccttctccac cgtgctgaac gatctgaagt 240  
 atgctgacac tcatgaatgg ttgaaagttg agggtgattc agcaaccgtg gggattactg 300  
 accatgcca ggatcatttg tgtgacgttg cttttgtgga gctaccacaa gttggcatca 360  
 gtgtatccta tggtaagaac tttggtgctg t 391

<210> 35100  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D5

<400> 35100

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 ttccgttccg tttcgtcccc agctattagt cgggtcttca atttaaagaa gaagacatgc 180

atgggagcgat gtcgctgctt ttgctgtgcg ctatagcctt tctcgtccgc ctgaggcacg 240  
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catatccccct tgctttcagg aagaaagtga aagtaattat atatatgatg atcgtgtaat 360  
aattttcgtc tacgagggag aatgaccttg tcatgcagaa aagatcaatt caagtggctc 420  
agcgttcgga ttaaa 435

<210> 35101  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A3

<400> 35101

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gcatttgata agacagcaga tacacgtacc agtgcattca tggcaccagc cttcttgtga 180  
tggttataac ctggccttcc cgatcccgaa cctcttccct tgcaagaacc ttgtgacacg 240  
tgaaggcagc gcctggttgt acagtctga ctccaaagcg ttgagggaaa agctcaggct 300  
tccagtcggg tcctgtgagc ttgccgttcc actcaaagcc aaatcgaggc ttttctcggg 360  
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cgcaatctcg gcagcgc 437

<210> 35102  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A4

<400> 35102

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gaggagaatc ctaatatcgc cagctcggtg tacctagttt ctgaatgcga gacaaatgga 180  
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gtttgcgctg tcattggcat tgcgagaggg gttcagcttc tgcataatct gactgctcct 300  
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 aagatcagca acttttagtct ttcaatgatt caac 394

<210> 35103  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-009-Q1-K1-A6  
 <400> 35103

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 gacccgcgcg cggacggagc ggtctgccac gtgaggaggc aggtgcggta cgacaggaa 300  
 gacgaggagg aggaggacgg cgaggagtgg ggccacaacg aggacgtcg gaggattgaa 360  
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<210> 35104  
 <211> 463  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 35104

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 agaacacaac ctgccgtttt cccacgtggc caaagctctg gacaaagaat tatgggcaat 300  
 atgatggata atattttggt cagaagtctt acgtccaaat caaatggtca aacagatgat 360  
 attgctccac cctcacctgt gaaggccct gatgatgagg ctgacaaggc tgaagatgaa 420

gaaagcccta tgatggaaac tgtcangagc aaatgtatta cac

463

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<212> DNA

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<400> 35105

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gactgcgacg agcccatcca cgtccccggc acgctctccg gcaaccacca gcgctacctc 420  
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<210> 35106

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B1

<400> 35106

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gcgcacttca cggccccgtc ctacgtccgc cgagtgtca tgtccgcggc gctatcgacg 180  
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gtcgtgcgcg gcacctacaa tggccgtgag ggcaaagtgg tgcacgtgta ccgccgtcgc 300  
tggtcatcc acgttgagcg gatcaccgcg gagaaggtga acggctccac cgtgaacgtg 360  
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<210> 35107  
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 <212> DNA  
 <213> Zea mays  
  
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 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-B11  
  
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 gagttggcag ggaacgcggc gaaagacaac aagatgacgc gcatcattcc gcgccacgtg 360  
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 cac 423

<210> 35109  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-B2  
  
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 gaccatgcat cggagtggta aacctgaact ggtttttgcc tgttcagcgg aagctcaaat 180  
 ggcagaatcg caacaacagt agcatcggca gctcaaaaga acccgcggtg aagctcaaat 240  
 ggcccgttcg gttgctgttg atgaggaagg aaggaagagt gccgtgcacc aattcgctcc 300  
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<210> 35110

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B4

<400> 35110

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 agactgatgc ggacgatgag aggggttggg tgctcggcgc cgtttacgct cggcggtgag 180  
 ctggtggcct cgtttcgtcc ttaccagag ccttctccac cgtgctgaac gatctgaagt 240  
 atgctgacac tcatgaatgg gtgaaagttg agggtgattc atcaaccgat gtgattactg 300  
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<210> 35111

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B5

<400> 35111

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 gttggagcac tcaatcaggc cattactatt gctacgttcg tacatccagc gggatgtggc 180  
 acaatcttga tgataaagag gtgcgccaag ttcgtgaagc agacgtattg aagcagaagg 240  
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atgctgctaa tttgctcaag aagaaaaacct ctgaaaaaat ctcaagtttg aatggtattg 360  
 cacaaaccaa tgtaagagca caaaatttga atggtgtgtc tccatttggg gataagacgc 420  
 acggcacaat cattggctac tctacaattt 450

<210> 35112  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B7

<400> 35112

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 tatcttcctt ggccacccta ttgttaacga caaagagagg cgggtcacat acattaagga 180  
 ttctccaaag ccacctccag agagaattac attcacgttt acagtaatca actcatccgc 240  
 atacgttgcg atggctgtga ctggagctgg aaaggccgca gcggtgcaca aggcgctctc 300  
 atacaagcaa acctcgtcag acctgctgcc tgttgagatg gctgtgctgc aagatggaga 360  
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<210> 35113  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B8

<400> 35113

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 cagataccca cacaacatcc atctaccag gccaaccaat gggcaactac aaaacaagac 180  
 tcaccacata cattaacgac cctccaaatc acccatcaga cacaatacaa tcacctacac 240  
 acaaacaaca cataccaat 259

<210> 35114  
 <211> 372

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-B9  
  
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 tgggggtgtaa attagaacat aaaaatgttg taatttttgt tttcttgctt acaaattccc 120  
 acttgatttc ttatctgggg tttggctacc gtatatttgt attcgaatgt aacgcacttg 180  
 tgtatTTTTTg tttttgggtt tattacattc aacaagggtca gaactgtatc gtagaaaaaa 240  
 aaaaaaataa actataaata aattttttttt ttttactaaa aaacaatata tctaaaaact 300  
 tacattagcc acatttctat attttttttta aaaaattaca atcttaattt caatattaaa 360  
 taaatactta at 372

<210> 35115  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-009-Q1-K1-A2  
  
 <400> 35115  
  
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 tatgctgagg taagatgggt tgcacccggc aggcgaccat cgaagacctg ctggcgatgc 120  
 atgctgcaa cctgatgtgc ctgccggaga actaccagat gaagtactac ttctaccaca 180  
 tgctctcgtg gccgcagctc ctcttcgtcg ccgaggacta cggaggcagc atcgtcggct 240  
 acgtgctcgc caagatggag gaggaccctt ccgagccctg ccacggccac atcacctccc 300  
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<210> 35116  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-F8  
  
 <400> 35116  
  
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ttgtgtccccg cgtcctgcct tgctcgtcct cctcattcca gcagcaacta caactactac 120  
 tgcgactggt gccctcgccg ttccaccgcc tcccccgacc tcgacgcgtc gttgctgctg 180  
 tcttgtggaa ctagtagaga cggcgacgac ggtggcttct gctgcgggta cgggtacggg 240  
 gctgcggagc agctggacgg aagtggagct cccacgctcg ccgtcgcggg cgcgcactcc 300  
 ttcttccgcg ccggcgccgg ctgctgcgcc tgctaccagt tgaggtgcaa ag 352

<210> 35117  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G10

<400> 35117

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 gggaatggca cctacactgg tgggaccggg actcgcttgt ttattctaata cctgtgagat 120  
 cttcacgctg gaccagctgg tctgtcacgt ctgtctgcat ccagtgtagt cccatgtggg 180  
 tagcatcagc atcttcttgt gcatcacaca cccatgctac cccctagtac tgctgtgcat 240  
 atcatgggtca tggaggagca gctacctata tgggctggta atagtcacta ctactaatta 300  
 atgctaaatg catcatgtaa cgcaacgtaa taggagagca agcgctataa tctgatgctt 360  
 gctgctgcc a tctgctgacc tttggtttca tgggt 394

<210> 35118  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G11

<400> 35118

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 acggtggaga tgaggactac cttcctctgg ctctgctgtt acctgcaagc attgctgctg 120  
 ctggatgtgt gtgtttgata agtgactggc tgctgctcca tagaagatga acggagagaa 180  
 ggatgatgaa gaagggtttt ggcaatcgcc gctgcaactg caacccatgc catgccggct 240  
 tagtgattgg gtataatttg gcttggcagc agccagcatt attatgtgct gatcttttat 300

ctttactagt ttggtcgtcc gatatactttc tttctttctc ccccccccc cccctttcga 360  
 ctctgtactg aaactgctga gagattcgca gtattgggtgg atcgtattcg tatgctactg 420  
 tt 422

<210> 35119  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-008-Q1-K1-G12  
 <400> 35119

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 aaaagcaggt ctgggacagt gggaccggca tttctgtcac tggaagcgag caacagcagg 120  
 aagctgctaa tgggaagccc aatccgtctg caccagcacc aaacgggtgtc cctgcagagg 180  
 tgaaggcagc gaaggcttct gcagagaacg gcaccgtcac tccagctatt tcctacgcgg 240  
 caaatgtggt ccaagcagca tcagagaaac ccgttctcgc caacggag 288

<210> 35120  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-008-Q1-K1-G2  
 <400> 35120

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 caccgcatct cctcaggggt gacgtcgccg tacgggaaca gcatgcacta cgcggagaac 180  
 gtgcagtcgg gccacttcgc cttcacggcg gcggaggccg gcgactacct ggctgtcttc 240  
 tgggcgcccc accataagcc accggtcacc atcgggttcg agttcgactg gaggagcggc 300  
 gtctccgcc aaggactatcc cagcgtcgcc aagagggcaa ggtcgatatg atggaattgg 360  
 agctgaaaaa gctagaggaa actataaaaa tatacatgaa gagatgttt 409

<210> 35121  
 <211> 300

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G5

<400> 35121

cccacgcgtc cgggaggata caatggacgt ttcagcaatg aggtttatac acttagcctc 60  
 gaatcagatt ttaagtccac cacaaaagaa gaaactgtct cagatctagg gtcgtcgaac 120  
 cagagggttg aatgggtgatt ggcgtggaca gtgctgattc agacctgaag aacagtagta 180  
 cagtactgat gaagcaagtg aacagttctt agcagctctc aaagctgaga aagaggaact 240  
 agaagcgaca cttaacacgg aacagcttga aaactgtaca acttaaggaa tacattgctc 300

<210> 35122  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G6

<400> 35122

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 gggttcaatt aataaatagc tgtacatgct tgcctcggac catagctgca gaagcaactt 120  
 gttctaagtt aaacttgctt cgttgcttgt acttgacaca tttgctgaaa catatataca 180  
 caacctctcc caccatgaga acagagcttc ctcaggtata acttcccttc ctcattcattt 240  
 ctacaaaactc ttctgtagtcg attctcccat ccttgtcttt atcaacttcg tccagca 297

<210> 35123  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G7

<400> 35123

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 ggatctcaac ccaagtcgtg cctccgctcc ggtcacccgt cgctccacgc aacctgctcg 120  
 aggaggaaga ccagggagcc caaggaggag aacgtcacco ttggaccac tgtccgtgaa 180  
 ggagagtatg tctttggtgt cgctcacatc tttgcatect tcaatgacac cttcattcat 240

atcactgatt tgtctgtgag ggaaactctg ggtcggatca cccgtggcat g 291

<210> 35124

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G8

<400> 35124

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ggagatgatg gtgcgcaagg cgaagggtga gttcgacgag cagtcgccgg ataacttcga 120

cccgaagaac ccgtatgccg acccgggtggc gatgctcgag taccgggaac acctggtgcg 180

agagaagtgg atccagatcg agaccgcca gatcattcgg gagcgccctcc gctggtgcta 240

ccgcatcgag ggcatcaacc accaccagaa gtgcgcgtcac ctcgtcgacc aatacctata 300

ggctaccgcg ggcttgggtt ggggcaagga tgctccgccg cctgaacttc acgagcccaa 360

gaagaccgtc aaggctgagt agcggcgctg gtgccttgct tctcgctgctg ctgttcctgg 420

attggacagg tgatctgacc ctttcattga 450

<210> 35125

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G9

<400> 35125

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tggagcctta caacagcgtc ctctccactc actcactcct ggagcacact gatgtctcta 120

tcctgctcga caacgaggcc atctatgaca tctgcaggcg ctccctcgac attgagagggc 180

ccaactactc caacctgaat cgccttgtgt ctcaggtgat ctcatctctg actgcttccc 240

tgaggttcga tgggtgccctc aatgtggatg tgaacgagtt ccagaccaac ctggttcctt 300

acccgaagat ccacttcatg ctctcctcct acgcaccggg gatctcttct gcgaaggcct 360

ttcacgaaca gctgtctgtg gcggagatca ccagcagcgc gttcgaaccg gcttccatga 420

tggtcaaatg 430



<210> 35126  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-H11  
  
 <400> 35126  
  
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 aaaagaacac gggtttaaaaa aatcctggcc cactcaaac taccaaacct tactttccct 120  
 agcatacaac ttcatacct attctataat ctcacctaaa ttcaacacac tgtcacacgt 180  
 ttaacacctt caaaaccgta aaaacaccca ccttaccxaa cttaatcacc ttgcaacata 240  
 ttccattttc acaaatttcc ataatacxa aaaatcccac acttaccaac 290

<210> 35127  
 <211> 248  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-H2  
  
 <400> 35127  
  
 aaagtaaggc gatcagagat agcaaccttt tactttctttt acatgatccc agccctgctt 60  
 cttggctcca agaacagcat aagtacctcc cttctggctg gcgccgtgtt ccatcaagta 120  
 tacatgttcc acaaggagat tcttctggac tacgtgcacc atgatatcac cagaaagtgg 180  
 gctttgatth acttcaagct gcttttgctg gtgatggcta aggacaccat catgtacttc 240  
 aatctgtt 248

<210> 35128  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-H3  
  
 <400> 35128  
  
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 gagtactgac ctaaggatg ccatatctaa cgtacttcca aaatcttcgg gttgatcctt 120

aaccagctgg tttagctctg gacgatatgc catggcaaac catttcataa gaaactaatt 180  
ccaatttgac tcttaaagat gaaactgaag aagtaaaata gggtcatgga ctccgagggg 240  
tcaaagctat cattcgcttc cttgcaaagt tttatggatc ttatagact 289

<210> 35129  
<211> 56  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H4

<400> 35129

aaaggaacag gaacatagac agcaacccat acaatttaga acaagaaccc agccca 56

<210> 35130  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H6

<400> 35130

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agcgccggac aggccttcctt gctgtggtat atctcgtaa ggggagattg gggatgattt 120  
aggcctatctt gtaagcatcc ctctatcgga ttgcgaagct taccttgctg tgggtggtgtg 180  
ttaaagtgtg tgcacacatg tgtcgagtct gagaatacat attaccatca tcaatgatat 240  
aagtaataata gaataagcat gagtgtaaaa aacaatgtat atattcatta atctcttgcg 300  
tgtgttggtg ttttcagca 319

<210> 35131  
<211> 220  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H8

<400> 35131

cccacgcgtt cgcggacgcg tgtgtgagtt atgtgtaaac aactgaaga aggagtgggg 60  
ccctatcctt ggattaagac atgttcttct ggtagtgaga tgccttctga tcgaaccatt 120

tgctgaatct gactttaatg aacaagctgg gaagatgcta ctcgaaaatt atgaggaata 180  
 tgcaccgcat gcaaggttat acactggcat ccatgccctc 220

<210> 35132  
 <211> 126  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F7

<400> 35132

cccacgcgta cgcccactcg tactttcact ttttggctca cgctttttct cactaggtgg 60  
 gtttatttta acatgaatct atccacattt tcttagcaca taaattacat aatcattata 120  
 cacaaa 126

<210> 35133  
 <211> 73  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H9

<400> 35133

aaaaagaaaa aaaaaaaaaat aaaaaaaaca attttaaata caaacaaaaa aaaaaaaga 60  
 acaagaccgg gtt 73

<210> 35134  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A10

<400> 35134

gaagcggcca cactgtgac tccgtgacct ttctgcctg ctgcacagca catcacacac 60  
 agcccgca ca cgcaccagc tcagctcagc tcagctcacc aagacaatca atcatggctc 120  
 gcccgcgag tgtcgctgcc gctgcccccc tctctctgct gctgctcgcc gccgccgag 180  
 ctgggctcgt gtccgcccgc tgcctgcag ccagcgactt cgtccgcaag tcgtgccgca 240  
 cgactcagta cccgtcagtg tgcgagcata gcctggcgctc gtacggctgg tcgccgtcgc 300

cgcgagagccc gcggtagctg gcgcgcgcgc agctgtcggt gagcgcgtag cgcgcgcgcg 360  
ccgagtcggc gtacgtgggc cgtctgttct gcgccagcaa cggcaaattg 409

<210> 35135  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-009-Q1-K1-A11

<400> 35135

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caaaaccttg cgaagcaaac tgcactccag caagatctga ttacgaacct actaagtagc 180  
ttgcaacaaa atgagagagt cgatgcagct cagtcacaa gagttcagag cagcagcagt 240  
gatacagtgg ttgaagctgc tactgctgac agagaacact cgttacttgt taaaattttt 300  
gagttacaat ctaggatgat ctctttgact gacgaattaa ttgcggcaaa gctganacat 360  
gttcagctgc aggaagagct aaatgtactc tactgccaaag aagaaatctg atttgagaga 420  
ggacgagaac gaagaagcat gatgc 445

<210> 35136  
<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-009-Q1-K1-A12

<400> 35136

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tggcagtcctc attgttcatg tccgtcctgg tgaaaatgct ctctctgatg tcctcctaag 120  
cactcctata ttactgggtg aagaagggtg aagtggtttt gctgcttctg cagcagctgc 180  
cgtagctact ggagcatctg gatttgaatt tgggtgtggac ccaaattgtag atccagagtt 240  
ggcactcgcc ctgcggttgt ctatggaaga agaacgagca acgcaagagg ctattgcaaa 300  
aaaggctgca gatgatacat ctaataccga aaatatcaat gcctcaagct caaacagcga 360

ttctgttatg gctgaagcag aacttgctc anatgctgct gctggtgaca agcaagaaca 420  
gcca 424

<210> 35137  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E10

<400> 35137

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gagatctgga agttggctga aattttcaca actggagttg tccttggtgg atatcaggca 120  
atgatgactg tcatcttctt ttgggctgca tacaagacaa actttttccc aaaaatattt 180  
catgtggaaa gccttgagaa gacagctcaa gatgatttcc aaaagcttgc atctgctgtt 240  
tacctgcaag ttagcaccat cagccaggcc ctcatcttcg tgacaaggtc ccggagctgg 300  
tcatttgtcg agcgcccagg gtttctattg gtctttgctt tcttggttgc gcagctgatt 360  
gccacactga ttgctgtgta cgccgactgg gcgttcactt cgatcaaaag cattgggtgg 420  
ggctgggctg gca 433

<210> 35138  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E11

<400> 35138

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ggggaggggg ctgttgaaga aaaccttaac aattaagcca aagccgaagg ccctaccaac 120  
cttgccctcg gggttctaca acgccttcgt cctgagggga atccgcgtcg tccaggccct 180  
ccagcccgga acactcctct gccact 206

<210> 35139  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E12

<400> 35139

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ggccttttgca gtatgtgggg attgaagtat ggcaggtcaa agctgggttca gtttttgaca 120  
acattttgat ttgcgatgac ccagactatg caagacatgt tgtagatgaa acttttgctg 180  
caaataagga ggctgaaaag gaggcctttg aaggagctga aaagaagagg aaggctagag 240  
aagaagagga agcacggagg gcacgggagg aaggggagag acgaatgcgg gagagggata 300  
gggaccgcgg cagggaccga tacaaggata gatataagcg tcatatgcac tacgactacc 360  
atgacgagct atagatcctg tattcttttg aaatctgcac gatattggat gtctgtctac 420  
ggagagcgca cg 432

<210> 35140

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-E2

<400> 35140

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cgtgaggctg acggttgtgc tggtagtccg caaggaaccg gatttggacg cgtctctcct 120  
tggcactaag tttggcttca aaaggataa gtcataaat ctctgagac agtacttcag 180  
caactgcacg atcaactgag tacacgtncf tttttcacag tcagggtggc aaagaaatgg 240  
cttgaatfff agaatgagac ggcattgggca atatgggtgaa gcggatatta actccatggt 300  
cgttgcgagt tgcatacta ccaggcacia caaagggttc aga 343

<210> 35141

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E3

<400> 35141

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 gcccggttc ctcggaagaa ctccccgaac caattaagga ccttattcct gaataccggt 120  
 ccgccgttac caaaccggcc cc 142

<210> 35142  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-008-Q1-K1-E4

<400> 35142

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 gccggtgacc ttgctccggc tccgatcaag gaaaaggaag atgagctact acggccagca 120  
 gcccccgtc ggcgtccgc cgagcaagg ctaccggggg aaggacggct acccgccagc 180  
 ggggtaccgc ccggccggct accccccgcc ggcgcagggc taccgctgc agggctacc 240  
 gcagcagggt taccacagc agggctacc gccgcagtac gcgcagccgc ctncacagca 300  
 gcagcagagc agcgggcctt cttcatgga aagatgcttg gcctgcctct 350

<210> 35143  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E5

<400> 35143

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 attcaaagca gctcttggtt gaagcagatg ggaacacacg cagccttatt ttgaacaggc 180  
 cgaaccagct gaatgtactc tctctgcaa tgattaaggg actcctgagc tgtttcactg 240  
 cttttgtgaa agatgatgga gttaaattgt tgattatgaa cggttctgga agagcatttt 300  
 gtgctggagg tgatgttggt gctggtgtcc agtcaataaa taatggatgg aaatggggcg 360  
 ctgatttctt ccgagatcaa tattctttaa actacataat tgcaacatgt atcaaacctc 420  
 acgtttctct tcttactgga attgtcat 448

<210> 35144  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E6

<400> 35144

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cttcctcgtc ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct 180  
agagcgctg tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc 240  
ccccaagtt tctacttcgg tagttgagcc atacaacagt gtactgtcca ccactcctc 300  
tctcgagcac actgatgtgg ctatactgct ggacaatg 338

<210> 35145  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E7

<400> 35145

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gccaaatgta atcgggtcac atttcattag ctgtagctgg tgcacggca gttgcggttc 120  
ttagcactgc cgtaaagtct gctcatgtt cttttatttc agatgaggct tattgaattt 180  
ttagctacat gtcgtttcta ggggtagctc gattcgatgt agcgaaaaaa agttagatta 240  
tgtctatatg catgtgaaat ttagag 267

<210> 35146  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E8

<400> 35146

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acacttggtg ccaccctccg aactggccat gcagttgcag gtgtacaatc tgtgatacct 180  
gcagcagaca atacaggatt accagagtgt aggggagaaa tacttggcaa gctaataagg 240  
attgggctat tacagctcat cagcagcatg gaggggtgtag aaagggaatc ggttcctgag 300  
acctttatgt tgaattgggt gaagctgcgg tctgttcaga gtaagggtca acaagtgatt 360  
gtgatagcca caagcatgct ttgtttgcat cacgtgttag cgagtgagaa cccaaagatc 420  
actttcttctg 430

<210> 35147  
<211> 438  
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<213> Zea mays  
<223> Clone ID: LIB3069-008-Q1-K1-E9  
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cgggagcggc tacaagactg cagtgcataa tttctagcag aagaacaaga caactttact 180  
attgatccat catccttgcc tgatgcatta gatcttctag catcatcaga caatagaata 240  
cgcctactcg ttgctgaggc tcaacttcta gcacgagatg atgaacaagg ctcttctgat 300  
gggtggcgagc attctgatag tagatcctca ttaactatga gcagtgaaga tgcaaaagtt 360  
accgatgaag atactactaa aatgctttct gatctgctca ttgacaatgc gcatctgaga 420  
ctacgcctta atgctgtc 438

<210> 35148  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-008-Q1-K1-F1  
<400> 35148

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tatagcactg ctgtcacagg gttgatcaaa gatatgctgg aagcctctcc aaattccaga 180  
ccagacatca cacaggtctg gtttcgtgtt aatgagctac tgccgcttga gttacaaaaa 240  
agtttacctg acggaccttc gccagccgtt tccttgaagt tgcaagatga aggtgctcat 300  
aaaagggcac atgttatgcc taaaatgaac ctttcttcat cttcaagaga gcaatctaata 360  
agttctctat cgcattgaaa ctcaaaagca agagatgcac ccttaggtgc attttgggca 420  
acacaacatg cacaagtgc tc 442

<210> 35149

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F10

<400> 35149

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tagacatgcg tacatcgatg tagtagtata aagagaatta aatatattcc tcagtctttg 180  
aactaaaggt ggttatgcct tatatactta tatactggga ctgagggagt atatttctgc 240  
agacaatatg ttagctatga tcaaaccctg aatctcatgt ctaattgaaa gcatctctta 300  
accaggaaaa ggatgctagg gacattgaaa ttcctaatat cagatgggac gtctttgaac 360  
tcatgatgag atttatctat acagggtc 388

<210> 35150

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F11

<400> 35150

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tggtctggta ctttcctttt gaggagaatg accttccaag tttgtatgaa aagataactg 120  
cagctaagta ctcatgccc tactgggtct ctccaggagc taagtcattg atccagagat 180  
tacttgatcc aaatccaaga actcgtatca ctattggaga aataagagca gacccatggg 240

ttgagaagaa ctatgtagct attagacgcg gtgaagatga gaatgttagc ctggatgatg 300  
 ttcaagctgt ttttgacaat attgaggaca agtacgtatc tgaggaatta actcacaagg 360  
 atggtgggtcc tcttatgatg aatgcctctg agatgattac gctatcttaa ggtttggatc 420  
 tctcaacg 428

<210> 35151  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F12

<400> 35151

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 tggacaggag cggacacaat cagcctctgg tgcaggcaat gtgaacctca acaccttgat 180  
 gaacatgttc agtgggcttg gtgctggtgg tggcctaggt gttccaaatg ctctaatgt 240  
 gccaccagaa gaactgtatg caacacaatt agctcagctc caagaaatgg gtttttttga 300  
 cacacaggag aacatccgag ccttggccgc cactgctgga aatgttcatg ctgcagtgga 360  
 gcgacttctt ggaaacatgg gccaatagaa tatgatgacg aacataactg tgttctgatc 420  
 catgcatct 430

<210> 35152  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F2

<400> 35152

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 aggactggac caggaaaagc atggatcagt gcactattgc gtacacatag aaggaaactaa 180  
 cgattaatat tgaacgtgta gtgaaacgca aaatcacatg ggtatcaaga ggcacgctag 240  
 gtgaaacatg tgtgtcaaat ggctgtcttg tcacaaagat acagatgaag aagtgctaac 300

tcactggaga aataactgcg tatgaggaat tcttaatcac cata 344

<210> 35153  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F6

<400> 35153

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gtaaatcaac aagtagatca agagagaaga tctcacaatc aagtttacat cctgattctg 120  
aacaaagctc cagatttaat cggatagctt caagagagag atctgcttct gaaaagttca 180  
cgaaaaatgc tgogaattat ggccaattaa gctcaatggc atttaatcaa gagcaactat 240  
ggttcaatgc aagtgaaggg ataccttggc atgacaagct cgatggtgaa gatgctttgc 300  
aaaagcatgt tcatga 316

<210> 35154  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E1

<400> 35154

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ctgatgtgac tgcgcgcctt gttgctccta ctggtgctga ttgggggtgct gctccagctc 180  
cggttcctac cggatgatggc tgggatcaag ctggggcccc tgcacctgtg gtggacggca 240  
ctgtacctcc tctggttgcct cctactggtt gggaccaagc agccccgaca ccgactgccc 300  
aaagctggga gtaggcgttg tccactctga gacctgtctt ttgcgggtta aagttcagta 360  
tttttctgtg ggctgaatgg tcaaatttcg ggggcatctt ctttagcctt gctttgtttt 420  
gctttgaaca cttgtgtttt acgggtttct agctg 455

<210> 35155  
<211> 436

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-008-Q1-K1-B8  
 <400> 35155

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 ctgttgatgt tgactaatgt gagtgaacta gacgagactg actttggtat atagtggcct 180  
 cgcagtattg aatcagcacc ttctacgtag gacgtacata cagcctgtag ttacctctct 240  
 tctgggaaat ccaatggcag gttattagtt tgacccatag cgccacactg atcaggaatc 300  
 gattcgtata tagtgaccag cgtgatcaag aactaacacg gatgccgttc tgaatacaat 360  
 aatacgtaca acccattcgt gctacctgca atataattgg ataagtcctg ccagtctggt 420  
 tcactactgt aacata 436

<210> 35156  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-008-Q1-K1-B9  
 <400> 35156

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 ggctcgtgcg aagctaggta gccgccacca tgagccgctc ggggcagcct ccgcatctca 120  
 agaagtacat ggacaagaag cttcagatta agctgaatgc aaaccgtgtt gttattggca 180  
 cacttcgggg attcgaccag ttcataaata tggatgatga caacactgtg gaggtcaatg 240  
 gaaatgacaa gacagatatt ggaatggtgg ttatcatggg aaacagtgtt gtcatgatcg 300  
 aggcaactga gccagttgcc aagtcgcagt gaatccttat ttttcagctg atatagtcgc 360  
 agcatgaaaa ctgatgtaaa tgctatgagt gaaccctgtt gtacttcgga ctctgctttt 420  
 tgcacagcaa cataactcg 439

<210> 35157  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C10

<400> 35157

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tgcagctgtg cgacgtgggc acgcgcttca tcagctggga cggcgtgcac ttcacggagg 180  
ccgccaacgc catcgctgcc gccaaagggtgc tcaccggcga ctactccacg cccagggtca 240  
ccatcgccaa actcgtaaac tccacgtctgc ccaacgacga ctagctgggt ggccgatcga 300  
tcgatcgatc gtcgtcgctcgc tcattctgat aaacatactg caggctgcag gcttcacga 360  
tccatatcca attgtccgta gaaatctacg actagctcat tggagatctg taatgtgggc 420  
taagagatg 429

<210> 35158

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-C11

<400> 35158

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gggaactgaa naaggaatgt gttgaggcaa tggagactca actcaagagg gaggagtcc 120  
aagatgagga gatgcctgat gtcaggaaac tggacatccg aaacttcctg taggcctgat 180  
cgacgataac ctttgaggca ttgcaaatac cccagcccac ctgtgattnt tcttctttt 240  
gttttggttt caagttgatc cgtgctgtaa gctacaccta tgaatgctgc tccttccttt 300  
ttttgaataa aaaaaactgc accgaggt 328

<210> 35159

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-C12

<400> 35159

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cccttatttt tcaatatgtg gaaagggtgtg agttacaaag gggaaactgc ttccacgaaa 180  
gagcccacgt tctctgagag ctcttcagtg atctcaaaac ctgtgccttt taacgcccac 240  
atcaaccaga tcattcccga 260

<210> 35160  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C2

<400> 35160

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tacaccagcc agagaagatc aacagcacta cgccgcgcgc gcgactggcg gagtttcggg 180  
cgaatcgtgc tatgcagcgg cgctcctgc tgggtggaggc ggcgcagacg atgccgtgga 240  
gcccgtaggc atc 253

<210> 35161  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C3

<400> 35161

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gcggcggtcc aacaaaattg gtcacaacaa actgttctct gcacatagct gtctacaacc 120  
ctgccacaat gtttggaatt catgtcactt ctggcccat ccacctgatg tattcagaga 180  
tcccaatagc agtcgggtcag gttcggagggt attaccaacc gaggaagagc caccggatgg 240  
tgacggcggt catccacggc gagaagggtgc cgctgtacgg cgccgggggc agcctgatgc 300  
tgtcgacgag cacgggcggg gcg 323

<210> 35162  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-C6  
  
 <400> 35162  
  
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 tgtatcctga tgaaagacca tgcaatggtt ctcaagaagc tttagctcga tacagagaga 120  
 ttgtacctca tcttcgcctt tcgggtccta cgtcattcgc cccaattatt gaccttggcc 180  
 ccacccattg tggagcaaag tgggtggcaa taccatgttt taagcaatta ttgcttacgg 240  
 gca 243

<210> 35163  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-C7  
  
 <400> 35163  
  
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 cccggaaatc tttgcaaacc ggcgccgtta ctgtccggca aggcaacccc gtttttcggc 180  
 cggcggtgat ctggagatgc tcttttcacg gtgttttttt ttgggttacac tcccccttcc 240  
 gtcctg 246

<210> 35164  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-C8  
  
 <400> 35164  
  
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 gtcatactga tgatacccg gcgcccattgt ttaaaaacgt cactaacttt agccagatac 120  
 taggcgcattc atccacaagc gacgagcaca cacgaattac tggccaatac atgacattgc 180



tcatgtcctt tgccgagcac cctcctttac cataccttat tgaa 224

<210> 35165  
<211> 464  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-008-Q1-K1-C9  
  
<400> 35165

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gaatctnaag gataccggaa ccaaggggcc ggttgacctt attctaaagc catctgaaga 120  
tgacctcaag tgctggccac attgttttga gttccgtctg agggcctctc tttcaaagga 180  
tggggacttg tcattgatat cacgcatcag gaatgtcaat ggcaagccat tcagtttctc 240  
atttgcttat cacacatata tttctgtttc tgacatcagt gaggtcagga ttgaaggtct 300  
ggagacactt gattatcttg acaaccttag ccacaaagaa cggtttacgg aacatggaga 360  
tgccataaca tttgagtcag aggtcgaccg agtctacgtt agtccccaa atgtaataac 420  
agttattgac catgagaaga aacactcggt tgtcataaga aagg 464

<210> 35166  
<211> 285  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-008-Q1-K1-D1  
  
<400> 35166

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aacagcgctc ccatcaacct ggtggtggcc gtgatcgagg aggtcatcct cgtcggcggc 120  
gccgagtact accggatcac caacggactg gaccttgagg acaagctgca ccccggtggg 180  
cccttcgacc ccttgggcct tgccagcgat cccgaccagg ccgccatcct aaaggtgaag 240  
gagatcaaga acgggcccgt tgcccatggt ctcaatgttc gcctt 285

<210> 35167  
<211> 357  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D10

<400> 35167

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caccgcgtca gcgtcgtctg cgcggcgtcg tcgtccatgg ccatgggcgg cggcggcggc 180

ggccggcgtg ctgcgcagcg tgagcgctc gtcgtggggc tccagatcct ggtgcaccac 240

caccaccacg gcctgcacgg tcactggcac gcgcacgctg cgaacgtagt cctgaagcag 300

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<210> 35168

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D12

<400> 35168

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gagacctgga cgcgagcca aagcatccac ccatggcgcc tctcctcctg ctcttcctcc 120

tcggcggcct ctgcgcctc ttgtcgtcg ccacttcctc acgcgccagc gccaagaagt 180

gcgatgacgt caagagcaac ggcaattgcy gggactccgg cgaggaggca agatgcaggg 240

acgactgcgc gccagaggag acgcagcagc aggggaagat gcatgcgcgg cccgaccgg 300

agaaagacct gggcatcgta ttctccacgt tcgaccacga cggcgacggg ttcatacgg 360

cggtcgagct cgaagagtcg ctgcgcc 387

<210> 35169

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-D2

<400> 35169

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ttgctgtgtg gtcaaaccga taatgttgtg atgaagaaga tgcaggacta tttccagcac 120  
 agtgtgcctg aggttcggaa ttggcaactt gaagaagatt ttgaggctgc tctcaaggat 180  
 gcatgtttac tttaaagtaa ccaccgaaac ttgtggtgtt ttttgctgag cctgctgcac 240  
 aacgttattg agctctttct gctcttctg tggcagcact gattnttacc ggtgattttt 300  
 ttttcgctga acgtgctgga caagcgtgct gtgctctta 339

<210> 35170  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D3

<400> 35170

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 acgtagatct catgaaacac ctatactga ccatactgct cagtggatga tcaactgtct 180  
 tccaataat ctactgcgt ctacgacag agatcacttg cc 222

<210> 35171  
 <211> 256  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D4

<400> 35171

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 gaacggcagc ctccacgcgt acatccacgg cgatggcgac tgctgctgca gcggtggcga 180  
 ggccaagctg aatctggcac ccggcgcgcg ccttcgcata gcggccgagt ccgcggaacg 240  
 gctcgcgtac atgcac 256

<210> 35172  
 <211> 154  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D7

<400> 35172

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gccctcccag tcccagcgtt tgcggtccag tccagagagc tcgagcagcc atggcggctc 120  
ccctgttcct cctcctcctg ctgctggcta tggt 154

<210> 35173

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B7

<400> 35173

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cgagccggct tccatgatgg tcaagtgcga cccacggcac ggcaagtaca tggcttgctg 180  
cctgatgtac cgcgggcgacg tgggtcccaa ggacgtgaac gccgcggtgg ccaccatcaa 240  
gacgaagcgc accattcagt tctgtgactg ttgcccagcg gggttcaagt gcggcatcaa 300  
ctaccaggcg cccacagttg gtgccgggtt gccgacctcg ccaagggtgca acgtgccgtg 360  
tgcattgatct ccaactccac ccagcgtctc gaggtgttct cccggataaa cagcaagtct 420  
tacct 425

<210> 35174

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D9

<400> 35174

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tgctgatgc attagatctt ctatcaacat cagacaatag aatacgcta ctcgttgctg 180  
aggctcaact tctagcacga gatgatgaac aaagctcttc tgatggtggc gacgattctc 240

atagtacatc ctcatt

256

<210> 35175

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A12

<400> 35175

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tttattcatt tttttctatt ttcatacttt aacaaactct aacaaatact taatcttaat 120

cacccacac actttcctaa tactatatat ctctttcacc ttctttattc tcaccccttct 180

aattaaccaa cactattctc cataaattat catatttttc atatacaatt ttatcctata 240

ttttcttaat ttctt 255

<210> 35176

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-F10

<400> 35176

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ctaatacaat tccaatctca ctacacaagt cctcttatca atacccttta aaatcctcct 120

aataatcaat ctcaaaaatc ttaatcttta tacccttttc attatatata caacctcatt 180

ctctctacaa cacacttctt ccaaactaca cttatatctc acatacttac ttaacacatc 240

acccacattt cta 253

<210> 35177

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-007-Q1-K1-H11

<400> 35177

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aacaacacac aaataactcaa cttcatcttc aaactactat aatttctctt ataacttcca 120  
ctcttcacaa ccattacctc attcacataa aaaatattct tccaaaccat cataaatcaa 180  
taccatttct acatctctaa tataatactt atttaaatac tcaccatctc taccattatc 240  
ctcatctcca tctttttccc aatttaactc taataattat atcatcactt tctttcataa 300  
tctatttttt tcaactccaat attttatcac ctttcnctac ccatcaac 348

<210> 35178

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A1

<400> 35178

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gcaccccacg cccgcaggcc gggaccggcg gggtcgcgcg ccgggtagga ggaggagaag 180  
aggaagggcg gtatggcggc gccgccggcg agggcccggg ccgactacga ctaccttacc 240  
aagctgctcc tcattggaga cagcgggtgtt ggcaagagtt gcctcctgtt gcggttctct 300  
gatggttcct tcaactacaag ctttattacc acaattggta ttgactttaa gatacgaacg 360  
atagaattgg atggcaagcg tataaagcta cagatttggg atacggcggg ccaagaacgc 420  
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<210> 35179

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tgtcctttgg catgatggtc acacgcttag catggatggc gcacaggttg gtgtcctcaa 180

acaggccacc aaggcttgcc gtaagtctgc cctcaacact ggctcgactga agaatcctca 240  
 ccggtaccgc cctgtaactg ttgccc 266

<210> 35180  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-008-Q1-K1-A12

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 cgatacactc ctcccttgcc ttaccgcgat gcaatccgtg tgtgtgtgtg ctctgcctct 180  
 gctcgccggc gttggtttcg tgtgtgcct gcctgtcgtc ctcaccgcaa cgctactcgt 240  
 taccagctat caactagcat tgccttctcc ttccgctaca agaatctgac gagccccct 300  
 ccctaccgta ccgcgctgtt cccagctcgc tcctttccaa agtgtact 348

<210> 35181  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A2

<400> 35181

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 acatcctcct cctctacca caaaaaaagg aagggggaaa aatgaaatca tctcaacgcc 180  
 tgtacaaaaa atgccgcctt ttccacagtt gtccttgcca tgtcctacgc cgtaccgttt 240  
 tctatactgc tgtga 255

<210> 35182  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A3

<400> 35182

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gccttatctt gtactacttc cgatcttatg catgaacttg aacagaaaat cgtgaaattg 180  
ccttctttaa aagttaggac tgcattgtgac gatgtttctg aaaaaagga tctattatgc 240  
acgctgtcta caatctgctt acagcttata cacatttaga atagaaagct tatcccatgg 300  
gaaacct 307

<210> 35183

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A4

<400> 35183

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ggacctgtcg tgtcaagagg tgaagtagct gagacgaaac atcatcatca tgctagaacg 180  
aggattttt 188

<210> 35184

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A5

<400> 35184

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cgagtccggc cttccgtgcc ctagccgagc cagccgcgag gaaggaggca tcccgccgtc 120  
tcgcctggcg cccgcccgtc ggccgacctt ctgccgcagc ttccaattgt aaaaagatca 180  
tacatttttg tgcaagagcg agtggatatg gaaccatccg ctcagcctat ggggtgtcgtc 240  
gccggtgggt cacaagtgtg tcttgctctc gcctatccgc ctgcagcaac agtagctcct 300



gcttctgttg tatctgctgg ttacagtca gggcagccat tcccagccaa tcctgggtcat 360  
atgagtgttc agcaccagat tgtctaccaa ctagctcaac agttcccacc acagc 415

<210> 35185  
<211> 126  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A6

<400> 35185

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aacacaaaaa gatacagaaa aaattaaaca aaaacaaaac caaacactaa acacaatctt 120  
caaaaa 126

<210> 35186  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A7

<400> 35186

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caatcgaatc acctaaatcc aactcactgt ccgtcctttt acaacacct 169

<210> 35187  
<211> 207  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A8

<400> 35187

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gctgttgcat acaagaatgt gatcgctgct cgccgcgctt catggcgcat tgaaccttcc 120  
attgaacaaa aggaggactc ccataagaac aacaagcatg tgaaccttat caaagaatat 180  
cgtgccaaga tcgaagcttt actgaac 207

<210> 35188  
 <211> 190  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-A9  
  
 <400> 35188  
  
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 agccactcga tctacctcct caccactggg gccacgaaca gctctttcat gaacatcaaa 120  
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 tactccatca 190

<210> 35189  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-B1  
  
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 aatacttgag ag 132

<210> 35190  
 <211> 353  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 35190  
  
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 cgcgcntgtt aaactatgta gccgccacca taaaccgctc tgcgcgacct ccggatctca 120  
 agaagtacat ggacaaaaag cttcacatta agctgaatgc aaaccgtgtt gttattggca 180  
 cacttcagag attcgaccag ctcatgaatc tgggtgatcg caacactgtg caagtcaatt 240  
 gaaatgacaa gacagatatt gtaatggtgg ttatcatggg aaaccttgtt atcatgatcg 300

atgcactaga accagtttcc aattccaatg aaatcttaat tttcaactta ttt 353

<210> 35191

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B12

<400> 35191

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tgtcatatac tcacatgctg ctattttctt ttcagattga ggagatgcat cgtgaacttt 120

gcagcttggg aatatgcttt attccaccaa tgtctacgcc tcagcctcca ggctctgtat 180

ttaggtcctt tgtacaaagt ttgggtgctca aagctagagg tggagatcat aggatgggtg 240

tcaatgggac tttcaacaac actgtgctta tttcattgta cacagtaatc ctacatttgt 300

tgtcaaaaaa aaaaaaaaaa aatttatatt taaaattata aattaataat t 351

<210> 35192

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B2

<400> 35192

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gtccgggcac tgctgctgct gatcggcggc tgccctccatc ttggcgccag cgagcgcagc 120

agcgtcg 127

<210> 35193

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A11

<400> 35193

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cccccccca ccaccacaa cccaccccca cccaccccca cccacacccc atcccccccc 120

accacccacac ctccccaccc cccccacccc cccccccccc cccaccaccc accccccacac 180  
 accccccacc cccccccacc cacaaccccc cccccacccc cccacacccc cccccccccc 240  
 cccccccacac caacccccccc ccaccaacca caccacacccc cccacacccc cccaccccc 300  
 cccccccccc ccccc 315

<210> 35194  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
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 agctcatgaa tgctgggtga aatatcacgc tacacgagag gatgctgagc taactaaggc 180  
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 cctcgatctg cactctgact agcctgagct actcaaagt caaaagttgg aacttgctgt 300  
 gccaggaact tatgctgcat attcaccact cgtgacgaat gagtattatg gtccccaatt 360  
 gattgttata acgttca 377

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-008-Q1-K1-B4  
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 ttattgaggc ctatagtga gcatattacc catgcatgga catattgtat gagtgctatg 180  
 aagacgtctc ttttggaagt gagattagaa gtgtgggtgt ggctgtgagg agatttcatg 240  
 agaaggaagg gtcctctgct tttccctatg ggaaaaattg atcaaaccac gtatgttgaa 300  
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t

361

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<212> DNA  
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<223> Clone ID: LIB3069-008-Q1-K1-B5

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ccctacaatg gtagctctaa tcaagaaccc taatcatata tcagatcaca ttacatgaca 180  
gtcgacactt gacacgggca cacacacaca ccagcgcgtgt ccatggatca tacctgcaag 240  
tcagctccgc ggcgcacccg gttgcgccta cc 272

<210> 35197  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G12

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actcctcaac cttctactcc ctataatgcc atccctgaat aatacatacc aaaatctctc 180  
cactctaaca gaactacata tctatactga cctaccaatg ttcttcatac tctcccttaa 240  
cacctacgac acaatcattt ccagactcctt aatgaactat ctacatcatg catcaccct 300  
tctctacatt ccacttggtta taaacatact cttactatac tcttcat 347

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<211> 314  
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-006-Q1-K1-G2

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cctacactct acccgcacag cgccccctcg cctcacaccc caacccaacc attcgctcct 180

tgtcgccttc cgacgctgag tttgctggcg tcgatttgca cggggggatg ctcgatctgg 240

tagctgcatg tgccgaccta ctcgtcgaat ccggttggtg tcatgacaca tgcatatggg 300

aacagaactg gaat 314

<210> 35199

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G3

<400> 35199

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tagccgaata gcgaaacgac tgctctcgcg agctcgacgc tagatgtacc ttctgctgcg 120

cccactgccc gcttgtgtac tataatgtca cagcgccccct gagccgccac ctgacccaaa 180

ctatacgttc ccttcggccc ttagacgctg aagccgctca agtaaaacttc acccaccgga 240

tactacttct aca 253

<210> 35200

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G4

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aactgcgcca ccgtgccga gccgccgctg tcgacagggga agctcatcac gatcctgagc 180

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<210> 35201  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 35201

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cgtcgccctc gcgctcgccg tcccggccct cgccggcgac ccggacatgc tccaggacgt   180
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-G6  
  
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gaaaaatgat thgtcatgat gtatcccgga gaaccaththt thttggtaat tcacatacac   300
taththtggg ggttggttht thththththt gggggggggg gagtcactat gattgtgttg   360
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 <223> Clone ID: LIB3069-006-Q1-K1-G7  
  
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 caagctcaag cttgacgaga tcgtcatggt cacctttaga ggaacacatt ggacaaggac 300  
 tcggacactg ttgcataccg atgatacaga tctaaagtaa gatggggatg tcgtgtgctt 360  
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<210> 35204  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-G8  
  
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 gccggtcccc gtcaatgtcg attgccgtct gcctcgtat ccatacgggc tgactccatc 180  
 ccgtcggttg ctgctcccat tccccacac cgtgcgcctt gctactccgc acgtttgaca 240  
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 cgaaatgtgc ctactcggtt ttagggatat cttgggtcta gcgaggaaga tgacgaaag 360  
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 gcgagcgaac g 431

<210> 35205  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-G9



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gattgagaac attatcacac aatcctctgt cgtacacatg cttgcagagt gtgttgggct 180  
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accatcgaaa cttgtcaagg taagcgaaga tcagccagtt ctgaaagctt tccaactgat 300  
gagggaaaag ggagttgggt gcttgccagt catggacaca agtggagcaa atgccattgg 360  
taatattagc atcagagatg tccagtatct tttaactgct cccaagatat acaaagagca 420  
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<210> 35206

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H1

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taacccttc accggcacca gcagtgccag tcccagttgc tattcctttg cgtgtggcag 300  
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<210> 35207

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H10

<400> 35207

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attcgttggt tcagaccacg gtactttttg atcagccggc tgctgctgtg agccgataac 240  
aatgtagctc attgtgcacc tccatattgt actcttgata agtgtactac tcatcactgc 300  
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<210> 35208

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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aatgaggatg agctgcgtga cgctgtgctg cttgtatttg caaacaaca agatcttccc 240  
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cactggtaca tccagagcac ttgtgctaca tctgggtgaaa ggttgatga ggggcttgac 360  
tggctttcca gcaacatctn cagcaagtct tgaagctttt cggcagggct cctagcgaga 420  
ggatgtctga acaacttatg gctgcttttt ttacatatta tac 463

<210> 35209

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H12

<400> 35209

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aattctgaag ctgataaagt tgagcaggtc 150

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<223> Clone ID: LIB3069-006-Q1-K1-H3

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ctgctctatg agtacaccac gtgctcatcg ctccgccaca acgtcgttca agcagctcgt 180  
gacatcgac 189

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<223> Clone ID: LIB3069-006-Q1-K1-H6

<400> 35211

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ctgacaattg acttcgcgat attcctgggtt caccttgcca ccatcccat tactggcact 180  
gacatcaacc caactaggat ccttggcgct gccatcatct acaacaggga tcacgcctgt 240  
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caccagggtga tcatcatagc catcccggtc aaaaacaagt ctt 343

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<212> DNA  
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<223> Clone ID: LIB3069-006-Q1-K1-H8

<400> 35212

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caccggcaag aacgccgaga tgtggcccta cgtaccctac acgctcacca cctac 175

<210> 35213

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G11

<400> 35213

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tcgattgaca tgcctagatc tggaaccgct ctctggagcc ctggcggccg gcaacgccgt 120

ggtggtgaag ccgtcggagc tcgcgcctgc cacctcggcg ttcctcgcgg ccaacatacc 180

caagtacctg gactccaagg ccgtgaatgt ggtggatggc gggccggagg tgggggagaa 240

gctcatggag caccgatggg acaaggttct cttcactggt aatgaactac gtacgtaatg 300

catgagcgtg tatctgcgtt accacctggt gtctctctca ctctcaggca gcagccgcgt 360

tgggcgcctt atcatggccc aggccgacaa gcacctcacc ccggtggcgc tggagctcgg 420

ctccaaatgc ccctgcatcg tccactggct tgaca 455

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<223> Clone ID: LIB3069-006-Q1-K1-H9

<400> 35214

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cagtgtctgg ataggagggt cgatcctagc ctcgctcagc actttccaac agatgtggat 180

atcaaaggag gagtacgatg agtctggccc ggcaattggt cacaggaagt gcttctaggt 240

ttctgccaaag ttctgtcaagt gcttttaggg tttgccatgt tcatcatcgc tacctagtct 300

taagttatgc ccccttcatt tgctgagata tgtgtggcaa atttgcatc gtttggtatt 360

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<211> 425  
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 <213> Zea mays  
  
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 cataatttct ttaatagctt ccactcttca caaccaatac ctatttcata taaaaaacat 180  
 ttctccaaac catcataaat caatacccat tctacatctt taatttaata cttattttaa 240  
 gactcaccaa ctcttccatt atcctcaact ccagctcttt cccaactaaa ctctaataat 300  
 gatatcatta atttatttta taatctatgt ttttcaactc aatattgtat tacctttctc 360  
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 aaact 425

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 <213> Zea mays  
  
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 gtcattctgcc gaagccaatg ccgcaacgaa ggccgtccca cagtctgtgc tgcgcaagcg 180  
 caagcccagag gagcagtgga caacggacaa gaaagagaac gccctcgcac acaagaagga 240  
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<210> 35217  
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 <213> Zea mays  
  
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 cgaagtataa tcctgaaata atgtatagcc tatcttggga aaatgcgatg cagcgcaaac 180  
 tcaatgcagc tgttgaaagt gcaacagaat gtcttgagat ggtgatgggt ggttctgtta 240  
 gtgcctggaa gttactaact gtatgattat ctgcacagta taaatttcaa gaagctcatg 300  
 cagcagcaga attttgctat gcactacgtt gataaaaatg atgctatgca tatcttgaga 360  
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<210> 35218  
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 <212> DNA  
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 <223> unsure at all n locations  
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 actttcttat tctatcttcc ctcatactat tcaacaaatc ttcattacaa ctatctaact 180  
 cctactccaa catcctattg cagatcaaaa togaccatat caaaatatca cttccctaga 240  
 cattcccatg cattaaactt tacattaaac ctcttaaadc atcttcatta aataatcatc 300  
 aaaattcatc acacacataa taataatccc cattatttca taaaccgaca cttatctaatt 360  
 accttacttc cattgaactt tgaatttatc gtcattaaat aatcaaagca ttatttattc 420  
 atactcaata atat 434

<210> 35219  
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caaaaaaaca caaaaactca ccaaaaaccc ataaaaatac ccaaaaaaaaa aaaccaaca 180  
 caacacaaaa aacacctaca aaccccatat 210

<210> 35220  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-E4  
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 tctcctccct ggccgacccc tcgtacttcc ccggccatcg catcgctcagt ttcaaaagca 180  
 ggacgctgcc acttcgctct ctccacatcg ccgctgccgc tgccgcccgg gcagacgaag 240  
 aagagggcga actaggtgga agtgtgaacg ccgctcgacca ggaagaagcg gagaataagg 300  
 tgggtggtgcc cgagagacaa gacccgatgc tgggtactcaa gttcatctgg atggagaaga 360  
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<210> 35221  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-E5  
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 cagcgaccgt gaactgcgcg gacaatacag gcgccaagaa cctctacatc atctccgtca 180  
 agggcatcaa gggtaggctc aaccgcctgc cgtccgctg cgtcggcgac atggtcatgg 240  
 ccaccgtcaa gaagggtgaa cccgacctca ggaagaaggt catgcccgcg gtcacgtgcc 300  
 gccagcgcaa gctgtggcgc cgcaaggacg gagtctacat gtacttcgaa gataatgctg 360  
 gagtcattgt gaacccaag ggcgagatga aaggatctgc tatcactgga cctatt 416

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 catttacaca tgctgcggcc gcaagtgcag atgcggctcc agctgctcct gcggcaactg 120  
 atgcaacggc tgcggtatgt accctgacat ggagaccgtc gccaccagca gcgtcaag 178

<210> 35223  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-E7  
  
 <400> 35223  
  
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 gggattgcac aaagaagata tcagctggaa accagaagtg taataatcat aaggattacc 180  
 tatctttcgt aagaggtgca gtgccacgca gccacgcagc aagcactcca aatggtttag 240  
 aaaaggaggc ggctaattca aataaatccg ctgacaacgg aagtcccgtg aggccaatct 300  
 tgccagagtt attgctttct tgtcatgaca tcaatagcca agagaggtcc ccatcatcta 360  
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 gatc 424

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 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-E8  
  
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cttgactacg agcaagagtt ggagactgcc aagaacagct cctcagttga aaagagctat 180  
gagctacctg atggccaagt aatcaccatc ggtgcagaga gattcaggtg ccccgaggtc 240  
ctcttccaac catccatgat tggatatgaa gctgcttgga tccatgagac aacatacaat 300  
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<210> 35225

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-E9

<400> 35225

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tgactgtagt tcaacgagtg cattatcctc ttccaccagc cctccaactg cagcctactc 180  
cgctaatact atctcgagat cctccaccac tccaatgaat tccatcccac gaacatgac 240  
tacaaatatg atcaacttca gatcataact tcttctctta atgccaacga ataaacttat 300  
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<210> 35226

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-006-Q1-K1-F1

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atggcacatc actcagtgtc gagcactgag ctcaagctca gtggaagtgg agggcttctt 180  
actgggcgcg ttacgacagc tgctcgccgac gtactcgtcg tccgcgtcct tgccgaagag 240  
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cc 302

<210> 35227  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-F12  
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 gaaccaacaa ctggcatcaa gttccccact gtactcgaag acaattccaa tctgactaca 240  
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 ctttatgcct ttggattata tatacaacct gattctgtct gcaagaagct gggtcctaaag 360  
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 agggaaaata ttgacatgac 440

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 <223> Clone ID: LIB3069-006-Q1-K1-F3  
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 aaacttactt acaatggtac tttaaagtcac agcacctaca gggttcatat ttcacacttc 180  
 ttctgatgtt aaattcattt cctagttata tgtctattgt gaaatatgtt atggaacaat 240  
 atttacacaa atgggtgaaa gggaacggac tcattcactc tacctgtgac ttgcaccagc 300  
 gttgacgaga gctgttgtct atgggtggcct tcgctattaa ctgtatgagc ccttcaagca 360  
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 tttgttgtgt gattctcttg gtgggtcact ggtctcatgc atgcgatctc tgtataaatt 180  
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<210> 35231  
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 ctgcttcate aactgcctca cctctaccac ttactaccac tctcttcaca acaccttcag 180  
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 caacttcagc ttcatcacct tctccactga ggatgcaata cttaacgcca tctaattgcat 300  
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<210> 35232  
<211> 189  
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<400> 35232

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<210> 35233  
<211> 149  
<212> DNA  
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<223> Clone ID: LIB3069-006-Q1-K1-G1

<400> 35233

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cccaaagtga taccattttc tcatgattgt caaatatttg ttgtctttat aatgattcaa 180  
acatgattta ttattgctca taaactatth cttacattgc attatgaaac aaattgttat 240

cgtattccac atctttttca tatattattg taatatacctt attcctaaca aaaaaaaaaa 300  
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tctccgcctc tgttgatgac ccacatatca catccactgt ctaatacctt ttcactgact 300  
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cagaggtact aagcgcagcc gcaccgctga agtgcacaat ttgtccgaaa ggaggagaag 240  
ggacaggatc aatgagaaaa tgcgcgccct gcaagagctc atccccaact gcaacaagat 300  
tgacaaagcc tccatgctgg atgaagcgat tgagtacctc aaaaccctac agcttcaagt 360  
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 tgatccttga cctcgtact cctttcttga ttcctactcc gattaatctc ttaccaagat 180  
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 tttaaa 246

<210> 35238  
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 cagcggaagg caaggagaag gacagcgggc agcggtagct ggatctagca agcacagggc 360  
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 atcaaaccgc ccactacaac aatgtgaaac taatcaggac agaggcaaag acaatgatgc 360  
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<210> 35240

<211> 418

<212> DNA

<213> Zea mays

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 gttctgttta ttatgctgag cttagaggcg agaaagctgc cataaagaaa atggatacaa 180  
 aggcatctca agaattcctc aatgaattga agattttgac acgcgtccat cacacaaatc 240  
 tgggtgcgctt aattggttat tgtgttgaga gttgcttatt tcttgtttat gaatttattg 300  
 agaacggaaa cctaattccag catctgcatg ggacgggtta tgaacctctc tcatggacca 360  
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<210> 35241

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C7

<400> 35241

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 ctcaacaccc aagcacgcct tacacagctt catgagtacc ttcttactca caactacatc 180  
 actggctacc aagcaatcaa ggatgacttg gatgactaca catacgtttc atctgctacc 240

tcaccaagc atatcaacgt atcaaggtgg cagaatcaca t 281

<210> 35242  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 35242

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cacaccggca aacggcgagg agcttgctgc cgacagccac ctctgcccag cagtggccgt 180  
tgggcagctc gaaggcattg ccgccaagaa gtacagcaaa accgccccga aaccaacggc 240  
cacgctcagc ttcgacggga cgaagctcgg gatccgcca tcgccagtcg tagccgcgtt 300  
ctcgtcccgg tgaccaaact tcctgaccct ggagatcctc aagccggatg tcatcgcgcc 360  
cggcgtgaac atcttggcgg catggagcgg cg 392

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<211> 372  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-006-Q1-K1-C9  
  
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tcacattttt gtattccatg gccagattga tctccatgaa gctcgtcaaa gcattgaaca 180  
gcatgaatcc ccagagaata tcttccgcgc tgtccttgaa actgctgctc aggcccatgg 240  
tgaagataac agcattcagg gcatggtcga agaacttgcc actgatcaag agcttgccga 300  
tgactacatg aaacttttga tggaacaagt tctgcagagg atacagtcag agtcgcagtc 360  
ggggaccaag cc 372

<210> 35244



<211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-D10  
  
 <400> 35244  
  
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 atgattaaca ctctactca tacacttatt ttctgtgaac atgaaagcat tttctaaaca 180  
 gtccttttct gtatccactg aacttgcaat attttggtat gctcaatggt ttttcaatat 240  
 gatgcccttt ttcatagtta tgttttaaatt cacaaacaca tgaatttttt tttcttaaac 300  
 gcgcacgata gctgcacatc attaaattaa gacaagaaat cagtccaaaa tgtaccaaata 360  
 tacaatgccca atatctgcaa aacacataac ac 392

<210> 35245  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-D11  
  
 <400> 35245  
  
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 gctccagtc tccccctcc tctaaaacct ctccctcaat ctctctctca tcatacaca 180  
 cacttcccta tctccagtt ccatttctca acatatcaaa tttccaccta ctatgtccct 240  
 actattctct tacctcaaag atctatataa cactc 275

<210> 35246  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-D2  
  
 <400> 35246  
  
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gctcccgggc gctgatccg agcagtctcc tcggcccagc cggggatcca agcgggatgg 120  
 ggtacttgag ctccgtgac gccacccca ccgatggatc ctacgtcagc ggcggcggcc 180  
 tcagccagaa tggtagattt agctatggct atgcaagctc ccctggtaaa agggcatcca 240  
 tggaagactt ctatgagaca aatattgatt gtgttgatgg tcacatagtt ggtctttttg 300  
 gagtttttga tggtcatggt ggtgctaagg tagcagagta tgttaaagaa aacctgttca 360  
 acaatc 366

<210> 35247  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-D3

<400> 35247  
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 tctcgtatta tctctaggct ctagctagcc gcgcactcc ttcattgtagc catcagcctt 120  
 ctcatcgcca ccaatggcca ctgccgaagt ccagaccccg accgtcgtgg cagccgatga 180  
 agcgcctgtg gtggagacct cgccgccggc cgacgtgccc gaggagtctg ccccgccga 240  
 ggccgaggcc gaggccgaag ctgctgctcc tgctgatcc 279

<210> 35248  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<400> 35248  
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 gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180  
 gcggcagcgg ctgcggcatc gccgcgcaac ttccggcgca gcttctcctt cgcgtcctcc 240  
 gcggggccaca gccactgcgg cagcngcagg gccaaagtgcg tgtgcgcgcc cgcgaccac 300  
 gccgggtc 308

<210> 35249  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-006-Q1-K1-D5

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 atcatcatca accttgacct caagaaaggc ggcaacgggc gctacctcaa gacggcggcc 180  
 tacggccact ttggaaggga cgaccctgac ttcacctggg aggtggtgaa gccactcaag 240  
 tcggagaaac cttctgccta aagcggcctt ttttttcagt aagaagctnt tgggtggtctg 300  
 ctgtgcttaa tcatgctttt atatggcttc tacatgttgt ggatctttct tgatctgcac 360  
 cgcgcttata gtttgtgttg tactgcccta ataagtggcg cttatgagga ctgcttctgg 420  
 ttttgctgc 429

<210> 35250  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-D6

<400> 35250  
  
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 acagatcttg gcatcatecc ctcatcgaaa ggcaccacta ttcacagaa gggtccacat 180  
 gttatcttct gcgctcccc gtctggttca gatgattact ctagggatgt cagattggca 240  
 gcatcaaatt ggactggtga aggatctttc ctgtttacat caagtacagc tctgtatgat 300  
 tgcagtgaca acagcatgtg caacgaggat tgtctgtcag tgccaattgg caggagccct 360  
 cgtactgata ttcttctaaa agtggaaaat gttgttc 397

<210> 35251

<211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-D7  
  
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 ggatatagat tcttagtgta atactagcca aggaagattt ggcagacgat gttgatctag 120  
 aagctatagc taacttgaca gaagggtact cgggtagtga tctcaagaat ctttgtgtta 180  
 ctgctgctca tcgtcctatt agggagattc ttgaaaagga gaagaaggag agagcttcag 240  
 cagaaacaga aaataggcca ttgcctctgt cgcacactag caatgatgtc cgtgcattaa 300  
 gaataagtga tttcatacat gcgcatgaac aggtgtgtgc aagtgtttcc tcagattcca 360  
 gtaacatgaa cgagcttgtg caatggaatg atctc 395

<210> 35252  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-C1  
  
 <400> 35252  
  
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 tgctatatgg atccgttcca catgcaatta gccttgcac caattctcat tataaaaaaac 120  
 ccaattatgt ccaactgctaa tacaactcat attattcaca tgatttctac taccaatcat 180  
 aataaaatat tttaaactcat aacttcattc aatcaatcat aatctgtttc tatcaaacaa 240  
 aacatacaca ct 252

<210> 35253  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-A2  
  
 <400> 35253  
  
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ctcataagtg gaaccctgat catgtggtcc atcttaccgt tcttctctta tgccatcgta 120  
ccatggaacc gccctcttga caacttgact atccacatgc cttaacgagc caacagcaac 180  
ataaacggat ac 192

<210> 35254  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-006-Q1-K1-A3  
  
<400> 35254

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caccatgtac tatctcacga ttgaagtga cgatggcgaa gtcaagaagc tctacgaagc 120  
taaagtctgg gagaagccat gggagaacct caaggggctg caggaattca agcctgtcga 180  
agaggggtgct agcgcctaaa gatgtctcct tctccatgtg cgagcctgaa gctcatagca 240  
aagttgcaga ataaggagcc atgctccctt gtgtaatttc ataagactac aaccctatta 300  
gggcttcggt ggttgtgtct gtatcgaatg gaattgaagg tgattaatta tccttctatt 360  
ctaataaagg gcgtttaatc tactacaata ctcttcaatc cacacctaac cgaacaagcc 420  
cttaatatga tatcttaca 439

<210> 35255  
<211> 422  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-006-Q1-K1-A4  
  
<400> 35255

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aagagaaata caggcaactt gagaataaaa agatacagac tctacttgta aagaggcatg 120  
agaattcaat aatgttaagg cccaacacaa gcttcagccg tccatcaagc agaggcttca 180  
atacgagtcc tggctccaca tccatctgga gcagccaagt ttctgcaaaa gttcagctgc 240  
ctgactcaga gaactcccca gctgaaaaag atatgctgtc aaaaataatt aggaacagag 300  
gtacgcaggg cattttggga aataacagaa gctgttcaat ctctcatgaa gataaagcag 360

aagtctccac agtgaatcaa ggcatttcac caatttaatt ttttctcact ttaaatttct 420  
ac 422

<210> 35256  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A5

<400> 35256

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cgtacacatt tgcgttctaa agacgaccc tccaataatcc tctcactaaa tcatcaatgc 180  
ctttaagcac aaaactctct tgcctcttat cactgtgctg atctacgggc ttcaaacaaa 240  
gaacattctc actcaacata caatgca 267

<210> 35257  
<211> 188  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A6

<400> 35257

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ttttaaaagg tttttagact ttaaatttat ttaattcata tttttttaa aaaataaagt 120  
ttttttaaac agaaacaaga ttcttttaaaa aaaaccacca taacaacaaa tttccaaaaa 180  
ccaccaaa 188

<210> 35258  
<211> 375  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-006-Q1-K1-A7

<400> 35258

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 gtgaagggca taattcatgg gttagtgcag tttcttttga tccgtattgg tccccaccaa 180  
 attctgatga aacggaagaa aatgtcatgt atcgctttgg gtcaattgga caggataccc 240  
 aactgcttct ctgggatctg gcattggaag agattgctgt cctctacgc catccgtctg 300  
 gtggtcacc gacattcagt agtgaagcc catctgcaca gtgngataat gcgtgccctt 360  
 cagecgggtg tctac 375

<210> 35259

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A8

<400> 35259

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 ggccgcgcct ccagccacc tcgtgccgt ctgccacccc gcccgctctc cactgcccct 180  
 atggctgcca tgggcgagcg ctgccgagt agccgaccgc cttttcccg ccgtcttcag 240  
 ctgccgcgcg ctgccccgcc taccgccag gctccactg cccacttctc cggcggctac 300  
 agcgaagggc aaggagaagg acagcgggca gcggtagctg gatctagcaa gcacagggcg 360  
 tcttctccat ccgccacctc tcgggcctc atcagctgac agtttcaggc atttgcctaa 420  
 gtgttttcat ttcataatat 440

<210> 35260

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A9

<400> 35260

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 cacttcactt ccaaagttaa tcatctgcaa aggtttgggt tttatcactc gatgcgatgc 180

acagatacac agtaattttt ttttacctac tttgtacagt tttatatata taaatgaatc 240  
 taaagctgtt tcagaagcat aattactcga tcaggcttct atcgaatata tgaatgcttg 300  
 ttttttttat accaaaattg tataaggaac cttgacttaa acagtcagat tatgtgcagc 360  
 aagattccgt catggatgaa gggctttgca cc 392

<210> 35261  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-B10  
 <400> 35261

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 ctacctatca atattcatat atacccccga cacttaccat ccctacactt acatactaca 120  
 ctttgacctt cagaccaccc tacatacatc acatctagac aacatactct atgaccccct 180  
 caatactttc tactaaatac acaattaaat tcccc 215

<210> 35262  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-B11  
 <400> 35262

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 aaataccacg acctacctca aattaagcta acacattctt cattcaacct tcaccaaaaca 120  
 ttatataaac caaaaaactt cttaccatgt aaacactata tcacaccaac atccatattc 180  
 acacaatcac cttcatcatc tttctcactt caatttcatt cacaatactt ttaaccttat 240  
 aactacctat ataccctta acaacaacac tcacatctct taaaatattt cacatataat 300

<210> 35263  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-006-Q1-K1-B12



<400> 35263

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atctttacaa gaaaccaacc catgtcacag agaagcatca tctcattttc aaccctctac 180  
tatgtctcta cgatatcatc ctacttacaa tctaactaaa tatcttccaa gtcaatatca 240  
caactaccta cacccatctc tttcatccag actctgacta cagactgggt aaccactact 300  
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<210> 35264

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B3

<400> 35264

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ttcctctccg tcttctgctg gagtcattgt aggctcagt gttggtacag tcgttggact 180  
aggccttggt gctgcattgg gatctttattg ttacaagagg aaacagaagc ctttcggaag 240  
ggtgcagagt ccacatgcca tggttatcca tccgcgacac tcaggttcag atgacatggg 300  
taaaaatcac agttgcaggg ggaaatgcta acgatgggtc tcgcgcaagc gagacatata 360  
gccaaagcag caatgggtcca cgggacatcc atgttggtga aagtggaaat atgggtcattt 420  
caatccaagt tc 432

<210> 35265

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B4

<400> 35265

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gcgtacaaga tggcgacgga ggggatgaac gtgaacgatg agtgccagcg ctggttcatg 180  
gagatcgaag tggaagaagg tgcaccgatt cgtggtgtac aagatcgacg agctgtcgca 240  
cgccgtgcta gtggac 256

<210> 35266  
<211> 411  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-006-Q1-K1-B5  
<400> 35266

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actccagagt ctcttctgaa agaagctatt catgtcatca gctgtggcta tgaggacaaa 180  
actgactggg gaactgacat tgggtggatc tatggttctg ttacagaaga cattctcacc 240  
ggattcaaga tgcattgctg aggctggcga tcaatctact gcatgcctaa gcgaccagct 300  
ttcaagggat ctgctcctat caacctttcg gatcgtttga atcaagtgtc tcggtgggct 360  
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<210> 35267  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-006-Q1-K1-B6  
<400> 35267

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gctggttaga ttcatcgctt ttcttgtcgc tgtccctcgg cctttccccc tactgtgctc 180  
cgagtctggg agaagcgact cgcgcacgcg ctccggccaaa ccaattaagc acagagcggg 240  
gctctcgggc gagaacgcgc tgaggcagtg ctgggtttgc agttcgtgcc gttagcgtttt 300  
ttttgtgtgt gtgccgaagc gaagaggcga tggctgcgcc gaggaagggt acggcgacgc 360  
cgctgggcac cgtgttctcg ccggaggaga cgaagagggc cgtggcgagg gt 412

<210> 35268  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B7

<400> 35268

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 ctgggttagat tcatcgcttt tcttgtegt gtccctcggc ctttccccct actgtgctcc 180  
 gagtctggga gaagcgactc gcgcacgcgc tcggccaaac caattaagca cagagcgggtg 240  
 ctctcggggc agaacgcgct gaggcagtgc tggatttgca gttcgtgccg tagcgttttt 300  
 tttgtgtgtg tgccgaagcg aaaaggcgat ggctg 335

<210> 35269  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A12

<400> 35269

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 cattgataga cgaaaagatc ctctgtatgc atggcgggtct atctccagag ttgaacaagc 180  
 tcgaacaaat acttaatctg agtcgccccca cagacgtgcc tgatactgga ttgctctgtg 240  
 accttctttg gtctgatcct tctaatagaag caacaggatg ggccataaat gatcgagggtg 300  
 tttcatatac atttggctct gatagtttct gaattccttg agaagcatga tttggacctc 360  
 atctgccgag cccatcagggt tgtcgaagat ggatatgacg ttttcgctag ccgtcaactc 420  
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<210> 35270  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B8

<400> 35270

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tattttccaag gcccatcccc ccatccactg cgacggatca agacgcgacc tccaacccaa 120  
ctgggttagac tcatacctta tcttgacact ctccctcgaa ctctaccact actgagctcc 180  
taaccttcta gaaaccacta ccgcacccgc tctgccaac caatcaaaca caataccgag 240  
ctactcaact agaac 255

<210> 35271

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B9

<400> 35271

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tgcaagcact gtgaagcgtg ttgcaaaccg cttcatcttt gatcaggatg ttgctattgc 180  
tgcgatgggg ccgatccaag gacttccaga ctacaactgg ttcagacgcc ggacctacat 240  
gctccgttac tagattaatc agccggtgta cccatgttta ccgtctgcaa aagacaagat 300  
aaaatttgcc tcttttagcg tcagtatatt aaggcctcag cactgcacat tacgtgctgc 360  
gatggaggaa atttttgaga 380

<210> 35272

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-G9

<400> 35272

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ccgctcggca gtctcagcag cacctgtagc catggacgcc agcggagccg gtagcaaggg 120

gaagaaggggt gcggccgggc gcaaggcaag cggccccagg aagaagtcgg tgacgcggtc 180  
 cgtcaaggcc gggctgcagt tccccgtcgg ccggatcggg cgctacctga agaagggccg 240  
 gtacgcgcag cgcgtgggca ctggcgcccc cgtctacctt gccgncgtcc tggagtacct 300  
 agccggcgaa gttctggagt tggcagggaa cgcggcgaaa gacaaca 347

<210> 35273

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H1

<400> 35273

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 ccttggtttg ccctttggag tgcttgtgca gcaaaagaag tatttttgtc tgtgaatgtg 180  
 aaacaaaggc atgaaacacg atgggctaaa gctggtcatc tcttggcttt agcacaactg 240  
 tgtttgcctt agaaaaatgg ctttgttctg agtgtgagtg cattgtccag tagccctttg 300  
 gtctgtgaac gcattggtga taatgtgacc atctgcaaga ataatgcctg gaaaatta 358

<210> 35274

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H10

<400> 35274

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 ggagtgatca acttcgtgaa tctaattctg ggtgcaaac tgagtttgac aatcctgcta 120  
 gataattata gtgttagtga aataagcata agttatgcga cattaggcat cataaatttt 180  
 tatgtatgtg cttaatttgg caaggaacaa aaatagtcgg gaagaggact ttgtgcagat 240  
 gggagagctt cagtatttca gcaatatttt tcgatggaca aaaaaaaaaa ttaaaaagta 300  
 taagatatgg attggtaaaa tatcttggaa taggatagaa ttgccaatt tttggaaatt 360  
 aatgcttgta ctcatag 378

<210> 35275  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-005-Q1-K1-H11

<400> 35275

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 tgcgcgcac gtcgtggacg actgcctcgg catcgtgcag cttcttagcg atggcaccgt 180  
 gacgcgctcc gcggactact ccgacatccc tctcctgggc gaggtgccgt ccaacctgcc 240  
 cgtccagtgg aaggacgtcg tctacgaccc cgcgcacgcg gctcgnnctc gcatgtacag 300  
 gccaccgac acc 313

<210> 35276  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H12

<400> 35276

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 aaccacgccc tgatccgcgc tccagccctc cccatcctcc tcttgctatg gtgcccagct 180  
 cgagctctct ccccttactg ccatggccga cgcctctccc tgctgcagct cgatgcccta 240  
 ccctgcagca agcagtggcc taccctttct gcagcaagtg ggtgcccccg gaccc 295

<210> 35277  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H2

<400> 35277

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catgcgcttc gacaacttca tcatccaggc cggcaccgac gcgtcgctcg tgcccaccga 120  
catggccacc accaactcca ccgtcagatt cacctaccgc aacaggggca cttctcttcgg 180  
gatccacgtc accgccgacc cggtccagct ctctacagc cagctgacgc tcgcgtcagg 240  
agacctccac aacttctacc agcctcgag cagcagccgc accgtcagcg tcgccgtggt 300  
cggcaacaag gtgccgctgt acagcggctg acccagctg a 341

<210> 35278

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H3

<400> 35278

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agaggccacg cctgcttgac agcaaggccc gtgcgctcgg cggcggcggc ggcggatatg 180  
ggcgactctg gcggctctgt tgtgtcgggtg gacgtcgagc gcatctcctt cggcggcaag 240  
gaacatcata ttcaaaccaa ccatggatct gtatctgttg ccatatatgg tgaacatgat 300  
aagcctgctc ttattaccta cccagatatt gctttgaacc atatgtcttg ctttcaaggg 360  
ctactcttct gtcctgaagc agcttcattg ctgcttcata atttttgcat ttaccatata 420  
agtcccccat gacatgagtt 440

<210> 35279

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H4

<400> 35279

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gtcagcgagc aggtcacgga catgttccgg cgcaaggcct tcctgcactg gtacaccgat 120  
tagggcatgg acgagatgga gttcaccgag gccgatagca acatgaacga cctggtggcc 180  
gagtaatagc aataccagga cgcgactgcg gaagatgagg aagagtacga ggag 234

<210> 35280  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-H5  
  
 <400> 35280  
  
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 cgtcgtccga ccacgatgag caccgcgcgc gcaggatccg cctcctccg ccacctgggt 120  
 ccgcgcgtct tcggcccagt tttttctccg gcggtcgcgc cgccgaggcc actgctggcc 180  
 ttggccggcg gcggggaacg gggcggggcg ctctgtgtgg tgcggtgcg gctactgtcc 240  
 accttcgtcg tcgaggcgaa ggaagaggtg gcggcgcca aggggaactc aggaagcacc 300  
 gcggcggcga aggcggaagc ggtggaagcc gctaaagagg gtgacgaaa gagagacaaa 360  
 gtggtgagca gctactgggg cgtcgcgccg tcgaagctga tgaacaagga cggcgccgag 420  
 tggaggtggt c 431

<210> 35281  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-005-Q1-K1-H6  
  
 <400> 35281  
  
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 attgttgatc atggcacctt ttcactgtgt atttacatca atggttggtc cttttcaagt 120  
 ctagcagctg tgctcacgca acttcgtatt atttgttcat aatagggtga gggaagttga 180  
 agcaaaagtc taacaaaaaa tgttttacgg gggatatgct taccatggca actcgtttga 240  
 gcaaacatac tctttgttat ccagcatcgt tttttgataa gccacacctg gaaggcggcg 300  
 ataaagtaat aatgccacct tctgcccttg atcgtcttgc ttccttgac atcgagtacc 360  
 ctatgctnat tgagctgcac aatgatgcaa cccaacggat ttcacact 408

<210> 35282



<211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-H7  
  
 <400> 35282  
  
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 cgccgtgccg gactactact ccatgcagtt cctcaagtcc aacaagggca aggtcaccac 120  
 gctcgccacc accagcgtcg ccaagaagga ctacacctac gaagcggaga gcaaggacga 180  
 caccgtcacg ctcgacacca ccgtcgtcac ctccaccatc caggccaccg tcagggacga 240  
 cgacccgctc gccgtctacg cttgctccaa gttcctgcag cctaaggagc tgttcaaggc 300  
 caaaaccgct gatctcgcgc ctgcgccggc tccacaaggg cccaagaaga agagcaagaa 360  
 gaagcccacc ggcacttcgg cggccttcgc gccctcggac gatgaatctg cagatggccc 420  
 gtctgccgac gacgacttgt tcgatgatg 449

<210> 35283  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-H8  
  
 <400> 35283  
  
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 tgcgaagctt tcggtgatag tgtccacagg agcattaccc tgtaccgaaa ctgatcttta 120  
 taacttacca ccaatgctcg aacatgttgc tggttgctgg tatttttagc actgttctct 180  
 ctggctaatz ggtctgaaga catctcaagg ggatatgtgg tgcaatctga gttctttaaa 240  
 gggcatttgc acttgtggat gttgattgtg gtgcaacctt ggcttgctat aatttttaga 300  
 taccgtttag ttgactagca ttagcacgct caaatgca 338

<210> 35284  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-H9

<400> 35284

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ccagatccag agaaaggcat aacgggcgtg gagccagttg ggccagggaa gatttaacca 120

gtcgggcccc gaaggagcct aagggttga tctgatgcta ccaggtcgct gagcatcgct 180

acggaagggg gcagcttctg attccggcag atggctcctg aaatgatgga ggaggggcaa 240

tcagctttct ataccggga tgacgtctc ttgtcatcag gttttgg 287

<210> 35285

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A1

<400> 35285

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ctgttttcca tgttcggctt cttcgtccag gccatcgta ccggcaaggg cccgctcgag 120

aacctcgctg accacatcgc tgaccagtc aacaacaacg catgggccta cgccaccaac 180

ttcgtcccca gcaactaagc tcaacggcta tgctatgcaa cttcattgtc tttcggatcg 240

gagaggggtg acgtacgtg attgattgat gctgcgagat gcatgtgtgt cttttgtttc 300

acgttgcatt gcataggcaa gtcgagatga tgagttggcg ttgtacacta agatgaacca 360

tgtttgtgca atagtgggtg gttttgtttc ctgcttgta aattgtgata tccattaatt 420

tgtttttctt ctat 434

<210> 35286

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A10

<400> 35286

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ggcacggatc tctttaacat gttgtcaatg gatggaacaa cagagaaaga gtcagcttca 120

tcttcaaacy acgataatgg ctgggatggc ttccagtctg cacaaccagt acctagtcca 180

gagaaacaag attctgccaa accagcagaa agcaagaccc agtctacatc tggaatggaa 240  
gacttatttta aagactcacc agctgtgcca ttatcctcag ctccagctga ttcccacgta 300  
aacgctaaga atgatatcat gagtttggtt gagaagctat gctttgcagt ccaatatggg 360  
atcacctttc gcttgccatc aacagcagct tgcgctcatg tctcagcagc aagc 414

<210> 35287

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A11

<400> 35287

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acaagttcta ctgaagctga gttgaaatat ccaaactatg accaaaattt cctcatatct 120  
gtttcaacag taacatccct tttggtaact catacatggg acagcgtagc agcattggct 180  
ctccatgact cttctatgct attaaggaat catgcaatgg cattgcttac tgaatatgtg 240  
ccttttggtt ataggaagca cctgcagtcc ttcctttcat ccagtaacgc tatcctgact 300  
ggcttgggac aactttctgg tgtaattgaa aagggtatt ttacacgaat gtctttgctg 360  
atgttttcta aggcattgtc ttatttcta cctgaagata tcgctttgat acctgaatgt 420  
gtttggcaca agttgaaaac atgcaacatc aac 453

<210> 35288

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G8

<400> 35288

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aatccctgcg cataagcgcc gtgacagggc acgggcacgt ttggcagaaa tctttgccac 180  
catcatcaag tcccgcgaagg cctctggaca gtctgaggaa gacatgctgc agtgcttcat 240  
tgattccaag tacaagaatg ggcgccccac caccgagggg gaggttaaccg ggctacttat 300

cgcagcgctc tttgctggac agcataccag ctcaatcacc tcaacctgga ctggagcgta 360  
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<210> 35289  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F11

<400> 35289

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tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180  
accgaggaag cgccgggtgt ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct 240  
gccccgcgcg ccgaggccaa ggtggaggag ccagctgcc ccgaggagac cgagccagct 300  
gccgcgcgtg agcccagggc gggccccgtg gcggcgcatg aagagac 347

<210> 35290  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F2

<400> 35290

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gatgacgccg atcaagaaga gccagccgtc ggccgacgac gccttcgtgg gcaactggaa 120  
gccgaccaag aacgacacgc tcagcaaacg cctgcctggg ttccggcgcca ccatgaacat 180  
actctacggc gagtcgatct gcggcaaggg atacgtcgac gccatgaacg ttataatctc 240  
gcactaccag tgttaccttg acctcatggg cgtcggccgt gagcactctg gcgacaaccg 300  
tgattgcgcc gagcaggcac cgttcaaccc cttcagtcgg actgatgacc agaagcagca 360  
gc 362

<210> 35291  
<211> 420  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F3

<400> 35291

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gacgtgccac ttggccggag agactcgctc ggtgcaagca tccagggtc caacaatgac 180

atcccagccc ccaacaacac actccccact atcatcacca agttcaagcg ccagggcctc 240

aatgttggtg atggttggtc accctctcaa gtggtcacac cattggtatg tctcggtgca 300

ctagtttccg gcagaggcta tacaaccaga caggcaatgg catggctgac agcacactgg 360

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<210> 35292

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F4

<400> 35292

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tgtgcctgtg gcggcggcgg ccgacgccct ggtcctcgtg tgctgctccg gcctctgccg 120

cggcgagcgg ctccaagcga gggagtgcga ggacctgggg ttcaccggcc tcgctctctg 180

ctacgactgc aacgcgctct ccgagttcgt caaggaccaa gagctggtgg aggattgcc 240

taaatgttgc accgaggatt cagatgatc tatcagcaag ctcacatttt ctggagcaat 300

tattgaggag tgcattgagga aactggtatt ttatccagaa gtt 343

<210> 35293

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F5

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gggcggt

67

<210> 35294  
<211> 451  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-005-Q1-K1-F7  
  
<400> 35294

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cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc gttctggcgg 180  
ccgtctccct ctcggtggcc gccgcggccg aggcgcgcgc gccagcccc gtctccgcgc 240  
ccgtcgcggc gtgcgtgcgc ttgccgcgg cctcgtcgc ctccgcgcgc gccttctct 300  
tcgccgcggt ccgccactga gccgatgggg cctcgtgcct gcaggctacc tagcagtact 360  
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gtagtagtga gaattcttcg gtgctgctgt g 451

<210> 35295  
<211> 406  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-005-Q1-K1-F8  
  
<400> 35295

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ctactacggt acaagacggg caaccagatt ggttatggaa ccaaccaa atgtgcagcatg 180  
cacaccttat tcaagtctgg tggcaccaat agatataatgc tatgtctagt taaattcttt 240  
gtagcgctgc gccgatgaag cctaacatgg tgcgagtttt gttgtttcgc cttttgtaca 300  
gtatatatct ttgcccaatc atttcgtcat gatatgatat caactgatgg gtatagtttt 360  
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<210> 35296

<211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-F9  
  
 <400> 35296  
  
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 ggtgccccgc cggaggcaac tccaccacgg agccgtacct tgtcgcacac catctcatcc 180  
 tttctcatgc agctgcggtc aggcgatacc gcgacaagta tcagcttcac cagaagggga 240  
 agattggaat tctcctggat ttcgtgtggt acgaaccttt cagcgacagc aatgcggacc 300  
 aggctgcagc acagcgagcc agggacttcc acctaggctg gttccttgac cccattgtac 360  
 attgacggta cccgtacttg atgcaag 387

<210> 35297  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-G1  
  
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 gccgtgggtg ccctgacccc aagatcagga tctacgatgt tggcatgaag agaaaggtg 180  
 ttgatgagtt cccctactgt gtgcaccttg tctcttgga gaaggagaat gtctccagt 240  
 aggctcttga tgcttgtctt attggcttca acaagtactt ttcctatatt gcaagaaag 300  
 atgcctttca ccttttggtc ctggttcacc cctttcatgt ccttcgtatc aacaagatgc 360  
 tttcgtgtgc tggggctgat aggcttcata ctgg 394

<210> 35298  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-G10

<400> 35298

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gcatttggtg gttggatgag agatctacgt ggcatagcta tggcaaccaa cagccgcaag 180

acatatggcc tcctatttga ctggttgat ccactctgca tgccacttct gctgagagcc 240

atctcacttt gcactgatga accagaggtc accacaccct tgctcaagtt cacgtatgaa 300

tttgttttga acaaagctca aagactgaca tttgattcat catcaccaa tgggatcctt 360

ttattccgag aggttagcaa gataatcgtg gcttacgggt cacgaattc 409

<210> 35299

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G11

<400> 35299

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cggagcattc atacaacgtg aatggctata ctataatctc acctaagtta acaatgaaat 120

gaacgtcgct agacatcgca gggactgtga aaacactaac attacccaaa tta 173

<210> 35300

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G12

<400> 35300

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agattgggtg tattggaact gtcctgttg gacgtgttga gactggtgtc attaagcctg 120

gtatggttgt tacttttggg cctactggtc ttactactga ggttaagtcc gttgagatgc 180

accatgaggc tctccaggag gcccttcccg gtgacaatgt tggcttcaac gtgaagaatg 240

ttgctgtgaa ggatctgaag cgtgggtatg tggcctccaa ctccaaggat gacctgcca 300

aggaggctgc tagcttcacc tcccagggtc tcatcatgaa ccaccctggc cagattggca 360



atggctatgc cccagttctg gactgccaca ccttacac 398

<210> 35301  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G2

<400> 35301

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ctgctccccg gtggacctga tegtgatgga gctgtacgcc aacgaggtgc ccaagaccgc 120  
ggagaacttc cgcgcgctgt gcacgggcga gaagggcgtg ggcaagtccg ggaagccgtt 180  
ccactacaag ggctccacct tccaccgcgt catccccgag ttcattgtgcc agggcagcga 240  
ctttaccggt ggcaacggca ccggcggcga gtccatctac ggcgagaagt ttcccgacga 300  
gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc a 341

<210> 35302  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G3

<400> 35302

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agaggatgaa gcacggaaga ccgcgaagaa ggctcaggca agggaatatg gatattgagga 120  
ggacaagtca gattcagatt ctgatgatga agggggagtg cgtaaggcag gaggtgatct 180  
ggcagcacia gctattggca atgctcatgc agctgctgct ttggttgcaa acaaggctgc 240  
taataatgca tgatcagcaa ataccaagat ctgcaacagc ccccttgatt cctttactca 300  
cagcatcaaa ccaacaaaat gattgaggcc actgctcggg cactttaagc tgcaatggac 360  
ttgcaacaaa atctggcaag gatacaggcc catgcagttc cagaacacta tgaagctgaa 420  
cttgagatta atgatttccc ac 442

<210> 35303  
<211> 157  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G5

<400> 35303

ccaacgcgta cgtataactcg aagcttcact ttgtggtgga cgcgccaaac attatgggtca 60  
ggagcatcat ccgggacagc gctgacatca agcctatgac atacagccag gacactaagg 120  
atatgctcaa gatctacaag gatcacgatac accacgc 157

<210> 35304

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F10

<400> 35304

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gccgccgcct cgtccatggt gtgggtccgc aatatccgtc gcttcgtcga cacgggcgcc 120  
ggcctcggat ccgaggccat catggaactg gagactaaaa ggatattgct tgagattttc 180  
aaggagcggc agcggaagag tgccgaggct ggttccatcc caagttttta caagaaacct 240  
gaagaaggat ccattagctc tagagttcaa aggttggcca agtacagggt tctaaagaaa 300  
caatcagagc ttctgctgaa tgctgatgat cttgatgccca tgtgggtttg tctcagagaa 360  
aattgtgtta tcgatgatgc tactggtgct gaaaagatga attatgaaga tttc 414

<210> 35305

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G6

<400> 35305

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gagagagaag tgctcccgtc ctttccttat cttttccttt cccttaggat cggacgatga 120  
agatggttgc attttttaat ggccttatgc atttatgctg cttgtaatga actattattc 180  
cgtcataact accagttact catcatgtgc tctttttttt attaaaaaat ggacttagtt 240

cttttcaacc gagccttatg ctagtaacct ctcaagtctg ccaacatatg caccaagcaa 300  
ggagatgga 309

<210> 35306  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G7

<400> 35306

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ccctaagaat cgtgtcctgt cagttaccat aacttcaggt cgaagaactg agcttcgcaa 120  
attactacca aactatacac atacactgtg gttgaaatat tattctattg aatctctgat 180  
cagccagaaa cattggactc gtaatttgga tgagatctgg gtattggctc ttgttcctag 240  
atcctgttta ttgaaactta gtgaaaaaca tgtc 274

<210> 35307  
<211> 227  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D2

<400> 35307

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aaaaaaaaaa aaataaaaaa aaagtgtctga cggttcttc cccctaacca cgcgaggcag 120  
aaccctgctc ccaggagggg ggcttgcggc tgtccccaag gagttcctgc cgctggctac 180  
caccactct ccgggctttc tggcgctcc atgggcaagg acggttt 227

<210> 35308  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D4

<400> 35308

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tgcggcgcgga cggcaccacc cggttccggg acgcgcgggg gagcccgtg caccacctcc 120  
 tcgccgtctc cagcttcagc gagtacaccg tcgtggacgt gaaccaggtg gtcaaggtcg 180  
 accccgccgt gccgccaag ctgcctgcc tcctcagctg cggcgccggc accggggtag 240  
 gagcagcgtg gaggtctgcc aaggtggagc caggatccac tgttgcaatc tttggccttg 300  
 gatctgtcgg tttggcgggt ggccaaagcg cgaaaatgtg t 341

<210> 35309  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D5

<400> 35309

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 tgcgcggata ttgtgctgaa ggccaggaac gcttgatagt ctatgattat atgccaaacc 120  
 tgagcataca cgcccaactt catggacagc acgcagcaga gtgcaatctc agttgggaaa 180  
 gaaggatgaa gatcgccgtc gattccgcag aagggatcgc ttatctgcat caccatgcga 240  
 cgccacacat cattcataga gatgtcaagg ctagcaacgt tctcctggat tcgaatttcc 300  
 aagctcgggt tgctgacttt gggttcgcca agctag 336

<210> 35310  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D7

<400> 35310

ggagcccgtc gcggccgaac cggccgccgt ggccggaggct gctgctcctg ctgggtcccga 60  
 ggagactcct gcggtcgagc aggaggcagc cgccgaggag gaggctgctg ctgctcctcc 120  
 tgctggtgcc ga 132

<210> 35311  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D9

<400> 35311

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ggtgagtaca ctagcaaggt ggacgattta gtgaaggaca aaatcgagtc acagaatgaa 120  
gaaagagcca aagagaagga ggagaaagat cttgtggctc agcagaacat gtatgcgcaa 180  
ctgcttcctc ttgctctgcc tgctccgcca atgcccgga tgggtggccc ttcacctccg 240  
atgggcggaa tgggcatgcc tccgatgggc gggatgggca tgccgccgat gggccctggt 300  
ccgatgccag cattcgggat gccaccaatg ggaagctact gagatgagat gtttt 355

<210> 35312

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E1

<400> 35312

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acgaggcgaa cggaccagag tcggcgagcc ccaggaggc gccgactccg cctccggctc 120  
tgaccggtct ttagaccccc cctgccccag gcgacgacga aaccagcagc gctgcgcagc 180  
gccgaccact ccgggaacct cacgatccag gggagatgct ggtcgccgcc gccgcctcgc 240  
cgtcgcagcc tggaaccgtg tttcccaggc cggaaggact tgggctcaga ttcggcggat 300  
cttgggctgg tctcgtgcat tcgagccgct gcaagccttt tggttaaccg gttttttcga 360  
gggaaaggga acctaaactg gttggggcac tttggg 396

<210> 35313

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E10

<400> 35313

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gtgagatata aatctgaggg ccatgctact ataatcctcg ctggtgctga gtatggaagc 120

ggcagttctc gtgattgggc tgctaagggt ccgatgctcc tgggagttaa agctgtaatt 180  
 gccaaagagct ttgagcgat ccacagaagc aacttggtgg ggatgggaat cattcctctg 240  
 tgcttcaaag ctggtgagga tgctgattcg cttggcctca ctggacatga gcggtacagc 300  
 atcgatctcc ctaccaacct cagtgaagtc cgtcccgccc aggatgtgac tgttactacc 360  
 gacaatggga aatctttcac ttgcatcggt cgctttgaca ctgaggtgga gctggcgtag 420  
 ttcaaccatg gaggcaccc c 442

<210> 35314

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E11

<400> 35314

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 gcgtgggttg ctcagatgga acctttgcaa gggcagctgt tcccagtgga gcatcaactg 120  
 gtgtatatga agctctggag ttgagggatg gtggctctga ctatttgggg aagggtgtct 180  
 ccaaggctgt gaacaatgtg aattctgtta ttggacctgc tctgattggc aaggacccta 240  
 cagcacagac tgagattgat aacttcatgg ttcaacaact tgatgggacc aaaaatgagt 300  
 ggggatgggtg caagcaaaag cttggtgcta atgcgattct tgctgtgtca ttagcttgtt 360  
 gcaaagctgg ggctagcatc aagaggattt ctttatacca gcacatt 407

<210> 35315

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E12

<400> 35315

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 gaccagaacg tgggggcgct ttctgtgaag ttgacaccag atgagatggc cgaactcgag 120  
 tcctgtgctg ctgcaggtga aatcttgggt gaccgttatc ctcaaattggc caacacctgg 180  
 aaggactctg agaccccgcc attgtcttct tggaaatctg agtagccaat ctggtgtctc 240

ttcaattctg ccaccgtcac attggtgtat ctccaaattg tcggactgca gaagatactc 300  
 aggtgcactt tgcaaaagcg tccatatgat gtgcttgcc tttgcaagct atgatgtttg 360  
 gtacttggtg t 371

<210> 35316  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E3

<400> 35316

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 ggtctgcgtc cacctcctgt gccggtgcc tgccctgcta ccacatcaat cagtgtgacc 120  
 atccagcaca ttcccatgac gtgccacgcc agcctgctgc tgccggcgct cgccgccgtc 180  
 ctgctctgct gccccctgc gcaatgcggg cagcagaact acacctccat gttcagcttc 240  
 ggcgactcgg tcaccggcac cggcaacctg ctcggtgtcca gcccgctctc caaccacatc 300  
 gtcggccgct acccctacgg catcacctaa cttcaccggc c 341

<210> 35317  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E4

<400> 35317

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 agactcgaaa aacgaacaag tggttcaaag agttctttga agtattgaat acattgagtt 180  
 tggaacaaat taatgaacaa actcggcaat ggcattgccc ggcattgcaaa aatggacctg 240  
 gggcgattga ctggacataa ggctgcagcc tttagttagt catgctagaa caaagggttc 300  
 tacaagggtt aaactttaca gggaattggc tgcattgctg gagaggagct ttctcgcagg 360  
 ggaacttagt ggtactcagc ggtgaacaat ttgggaaat 399

<210> 35318

<211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-E5  
  
 <400> 35318  
  
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 attggttgct caggctgaga aagatcttaa tgcaagtttt gaaagggagc ttaaggagga 180  
 aagagaaagg gtagagaccc ttgaaaaagt agctgaagaa gctatgttgg agctagatag 240  
 gttgatggca aaaagagagg aagagaagaa tattctgggc aggggcagag ctgctgttga 300  
 gtctgaaatg gaagttctgt tgaagttgag gagtgaggta taggaacagc tgcagaacgt 360  
 actgagcaag aaagtggagg tgcgttcga gaagagtagg attgagaaac t 411

<210> 35319  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-E6  
  
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 gcatctctta ctgaagataa attaaaggag cacttctcat cgtacgggaa ggtggttgag 120  
 catcagatta tgcttgatca tagcactgga cgttcacggg gctttggatt tgtcacattt 180  
 gaaagcgagg atgctgttga aagggttatg tcagagggga gaatgcatga tcttgagggy 240  
 aagcatgttg gaattaagaa agctgaacca aagaaacctg gcgctggtga ttcaagctca 300  
 aacggaagac acagccgtgg tggtggtcat cgtgattcat accgtggtag tggtggttct 360  
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 tatggcagca cagcatatgg tg 442

<210> 35320  
 <211> 462  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-005-Q1-K1-E7

<400> 35320

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gtgcaagcac ttacctaata aaaggagctc atgaatatgc acataagtta ccgaagggca 180  
tatggttgctc ttttgatttt gcggatgcac accctgatct gccggtgctg tatctacaag 240  
gtggatcaat tctttctgta agtcttctta ttaagcatgt tggatgaagca agtttggagg 300  
atgacctgtc actaattatc gcattgaatg aaaatggtaa agctgaaggt gttctctttg 360  
aagatgcggg agatggatat gcattcacac aggagacta tcttttgaca tattatattg 420  
ctgaactcca ctcatcagtg ggtactgtca aaatcgtaaa at 462

<210> 35321

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E8

<400> 35321

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tctgttctgg cagcaattat tcactctcag tggcacccaa ttatgcatga gttcggctta 180  
tcaccacaaa tccgatggcc agacggagcg cgtaaactag tgcattgaaa cttatttgcg 240  
atgctttgtg cagcctgtc ccagcaaatg gtaccaatgg ttagctgttg cagagttctg 300  
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<210> 35322

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E9

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tctggcttga ggcagcgttt ggcacatgaa aggaaatggg cccttgggtct tcagtctcga 120  
gcacatccac gagaaataat aagtgaagtg cttaaagctc tgcaagaact gaatgtttac 180  
tggaaaaaga ttggacacta caacatgaaa tgcagatgga gtccctggctg ccttgagagt 240  
atgatgcata acagtgatag cttcagtgcg gagtctgcta taattgaaac tgatgttttc 300  
atggagaaaat caaccccgac agtgaagttt gagattcagc tttaaaaaac gagggatgag 360  
aagtaccttc ttgacctgca aagggtcagt ggatcacatc ttctctttct ggac 414

<210> 35323

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D12

<400> 35323

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ccgccgccgc gccacgccgc atcccagcgc gactttcggg tgccgcgggc gggggcgagc 180  
agcagctcgt caccgcgcag gaaccggcgc acgaacctga ttatggagtt gtcagcattc 240  
accatgtcgg gatcctgtgc gagaatcttg agaggtcact ggcgttctac aaggacctac 300  
tgggtctgag ggtgaatcca gctcggccaa acgacaagct cccgtacagg ggcgcttggc 360  
tctgggtggg ttctgagatg atccacctga tggagctgcc gaatcctgat ccgttgaccg 420  
gacgccccga gcacggcgga cgtgatcg 448

<210> 35324

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F1

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aggggcaggc gatttttaggt gatctgtaca tggatgcttc actgctgaaa gagtgtttta 120  
aagataattt acatgtgccg atttaattta tcattggaca atatatactc tttgacaaaa 180

cccttgattc atcaaaattc ttgggttttt atctctggca tattctaaaa tattaacgg 240  
atattttaac ttatgtattg tctatttaat attgatagaa atcaaccgtt ttattccaaa 300  
aactttgcct ttgctttttt tcattacctt cctatataga tgcacaatat gcatctaaac 360  
tttctataat ttacatcta tagctttatt g 391

<210> 35325  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-005-Q1-K1-B8  
<400> 35325

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tcagcagatg gcagcagcaa gcaacagatt atagcgcttg ctctcctatt acattacatt 180  
acatgatgca tttagcacta attagtagta gttactatta ccagcccatc taggtagctg 240  
cttcttcatg accatgatat gcacagcagt actagggggg aggaggggtg tgtgatgcac 300  
aagaagatgc tgctgctacc cacatgggac tacactggat gcagacagac gtgacagacc 360  
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agtgtgta 426

<210> 35326  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-005-Q1-K1-C1  
<400> 35326

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gggctacatg gccaacacgg aggcgtggcg cgccaaggcg cggctccaga gcgcgccccg 120  
ccagcgcacc gacgcgctgg agcggctgcc cagccgcagg aagcagggga cgccgcccag 180  
ggccgtcgcc aggatgcact tgcagcgctc gtcgtcgctg gccggcaact actcctcccc 240  
gtggtcgctg tcggctgccca ggctcgacgt ctccgctagt tgcgctcaa ggacagcgag 300

tgcggtcca ccagcttcgt gtcaccgcc gtcacctct acagccggac gcggtcgctc 360  
 gtcggctccg aggtgcgccg tggcctgtac tgagaggagc tagctcgtgt tcctggcga 419

<210> 35327  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C10

<400> 35327

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 ctggagatag tatggtacac acacttctat ttgacatggt gttagagtgt taaagcaacc 180  
 ataagagaca taagagacta gacaaatcat tttgtaaagg taaatttgggt tattatcaga 240  
 aaaaaacatc tccaaccgac tttgtaatag ctcttcaaat ttagtagctc tctatctctt 300  
 caccttcacc tttactttct aatctacttc acttgcgtgct attcagtttg ttggtttaca 360  
 gagtctcggt tagattagtc tacttttttt ttttga 396

<210> 35328  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C11

<400> 35328

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 ccagtaccaa gacctctgt ctggatgtta caaccagtg gaacaccacc tatctgatgc 180  
 tgctggctgc tttggattat aagcagactt tcaactacact agaaacatgt gatgataact 240  
 acaatgaagc tccatcagca gaggattgga agaaagttga ggctgcctgt aattacctga 300  
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 <213> Zea mays  
  
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 taggcgag gagaggggtgc tgtgctcaac cagaggtcat ctgcgctacg cgagcgact 180  
 gcctgttgtg ctgcactgcc ggagtatcag gggaaaaccc tgaaatcatg gaaatcacct 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-C2  
  
 <400> 35330  
  
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 ctttcgcatt ttctttccaa tcaaacaatc ttgagtttga ctaaaaatgc atcaaagggtg 120  
 catatcattg acttcggcat ttatttttga ttccaatggc catgcctaata caggcgtctt 180  
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 <223> unsure at all n locations  
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ggtcggatac tatggaggac ggaaggctag tcggaccgtg atgccgcttc gtggccagcg 120  
 cgtggcgctg catgggagta cangtngcag cagccgtcca atcgccggc ctcaccatgg 180  
 cccaacccgc cccgacaagg gcccgtcgtc tcggctacaa ggccaagcag ggatatgttg 240  
 tctaccgtgt ccgtgtgaag cgtgggtggca ggaagaggcc tgtgccaag ggtattgtct 300  
 atggcaagcc caagcaccag ggtatcacc agctcaagtt ccagaggaac aagaagtctg 360  
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 <223> unsure at all n locations  
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 gtcacggtgt tagatccctg agcatgaagt tctcggtcga agatccatgt tgctgtagta 180  
 acgatgctgt tccaacttcc tttcctgata aaatgacaat gtagaaatag ttctgaagtt 240  
 tatgttgatt tgttgacagg tgggtcaatt gtgatcctgt acgattgtta tgaatccctc 300  
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 <223> Clone ID: LIB3069-005-Q1-K1-C5

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 tgaacgcagt cttcctgctg ggcgaggccg ccctgaatag cttgaggttc ccgtgggttc 180  
 gggtcgcta cttcttctc tggaccgcgc tctacgtcgt cttccagtgg atcgccacg 240

cagctacgcc gatgtggtgg tctttcccggt tctctgacct gacatcgaac ctggcacctc 300  
 tgtggtacct ggcggtggcg gcgctgcagc tgacgtgcta cgtggtgttc tggctgctga 360  
 tcaaagtgga acaccacctg cttgccaggt gcttttcggt ctcgtagcta cgctagctag 420  
 gggctatggc acaagcc 437

<210> 35334  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C6

<400> 35334

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 tagaggagcc gctaaagagc acattccaga atgtgcatca aggaaatctg agagggactt 180  
 tgatgcgttt tctgaaggct agagaatgga gtgtgcctaa agcttataaa atgctaattg 240  
 attgcttaaa ctggagagta cagaatgaga ttgacatcgt gttagctaaa cccattctgc 300  
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<210> 35335  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C7

<400> 35335

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 tccccgcgat gcatggcatt ctatatcaat ggacttcatt gaagggttac cgaagtccgg 180  
 aacaatggat tgcattctgg tgggtgtaga tgcattctca aaatatggtc atttcttggc 240  
 gctggcccac cttttttctg cagcaaagggt agcaaaactt ttcttggata atatctataa 300  
 gcttcatggg atgccggaca atatagtatc tgatcgggat agagtgttca caagtctgtt 360  
 ctggcagcaa ttattcactc tcagtggcac ccaattatgc atgagttcgg cttatcaccc 420

acaatccgat ggccatacgg agcgcgtaaa ctagtgca

458

<210> 35336

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C8

<400> 35336

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ggcgagtgcg actccacctc eggctcacat cctcagcaga ggcattgggt ggcagggaat 120  
cggcatcctc cttgacgggc tctttggaac ggggactggc tccactgtct cagtggagaa 180  
cgtcgggttg cttgggtcga caaggatcgg gagccgacgg gtcatacaga tctcagctgg 240  
cttcatgaag cttgttctcc atgctgggga aatttggagc cttgttcgct tccatcccgt 300  
tcaccatctt tgcggccgtg tctgcgtcc tgttcgggct aagtgcgtcg gtggggctgt 360  
ccttcctaca gttaactaac atgacctcca tg 392

<210> 35337

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C9

<400> 35337

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ggtgaagaag gtgaaagtga cccagcaacc cagcaaccaa gggaagcaga ggaaaactga 120  
tgaaaactgga gcaactgctg gcaaagctaa ggcacccgct gtggctgcaa gaaaagcaaa 180  
gcagctggcc aagaaacgca aggtggatgc atcaaccctt gagaatacac acaggagcaa 240  
gaaaccaaag aagtaagttg tccattgcgc tggtcatttg cccttgcttc gcattgtaac 300  
aggagtttca ctaaatacaa ttctggacga tcttgtcaga tgattggtgt actaggtaga 360  
ggcaatgtg 369

<210> 35338

<211> 368



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-D10  
  
 <400> 35338  
  
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 gtcctcgccg gcgacgccgc ggagtaggtg caacagaaac tgctcgaggc ggaggcggag 120  
 cctgcggctg cacagacatg ggtgatcacg aggcgcgcgg tgatgacttc gagaagaagg 180  
 cggagaagaa gctctcgggc tggggcctct tcggctccaa gtacgaggac gccgccgacc 240  
 tcttcgacaa ggctgcgaac tccttcaagc tcgccaagaa ctggagcaga gctgcatcag 300  
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 cgtacgtc 368

<210> 35339  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-B7  
  
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 aggacccata ggccatgggg ttatgcaatc caaagaagga aattcctgct tgagccaatt 180  
 acagaaggcc ctgatatttg tcaaattgat gggtgtagtg ttaaattgga atacaagagg 240  
 aggcaagtca aatatggttt gtgtgacagc acgttactaa cttactctac tataatctgca 300  
 tgagaaagga tgaacctgt ttgcatgtat actaattaat ctacggattc attaatgggt 360  
 gaataagatt ttattttaatt atgacagcaa acgtgacatg ccattacaat attcggtatg 420  
 ccaaaaaagt agttgcttat agtta 445

<210> 35340  
 <211> 156  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-A12

<400> 35340

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gtgaatttct gaaatcgatc tggccttctc tatctgatgt cattactcta gttagggttg 120  
caccacgctg aagtatgatt gtgctaataa cttcac 156

<210> 35341

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A2

<400> 35341

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gcggcttccg gcgtcggggc tgttccagag cctggacgcg agcgcgctgg agggcaacct 180  
gggcatctgc agcccgtcgg tggcggagcg gtgcatgatg aacgtgcccc agccgctggg 240  
gctggaccac atcgagtaca cgcacggcgg cggcggcgac aacaacaaca tggagacgaa 300  
cggcgggtggc gtgggcgcgc cgaggaagcg gcggttcctg agcgtgtccg gcatggtggc 360  
catctgcgcg gcggtcgcga tccgtcttgg cgtcaatcgt gatcacgctg c 411

<210> 35342

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A4

<400> 35342

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agtaggttca ctatatcttc taaggcaacc ttggtcagct ggcccagctg aagtatttaa 120  
agcacaatca gccgctgcaa tcgaggctat tctctactt cagtacttga tacagtctgg 180  
cccaccggcg gttcaagaaa aggcagaatt gcttcttcag tgcttgctg ggactcttac 240  
tgttacgata aaacgttgca acaatctaaa gcaatcagtt ggaaacccta gtgccttctg 300  
caagcttact cctggaaaca attcgccaag gctgacaaag attgtctcga ctggtgcaac 360

acctgaatgg gatgaagcct ttgcatgggc atttgac 397

<210> 35343  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A5

<400> 35343

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gcaacaatcc aaatgctggg atctgatggg ggcagttccg gccttgcttc attaactctgt 180  
ggacctttcg tacttgaatt aatcctcact tctcaagtta acagtagcga tgtacatatc 240  
tgatatgatg gatgtgcacc ggagttgttt gccgtgtgta taaatatcaa cggctattat 300  
tctagagttt actggcttgt cccttgattt ttttaacggg atgaactttt gtatgggccc 360  
tttctttgac attgacatat g 381

<210> 35344  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A6

<400> 35344

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attatgcatg tcgtcgtttg gaaacttgac aaaccgatta tacttgttta ggttgcttca 180  
gaaaagatgc ttgagaaact gaaacataaa tctggaagat gtgagcctgc tttagaaaag 240  
gctattgtgg aactggagca tgggtataaac ggtttgaagt attttgtttg ccttgatcca 300  
cggttgtagg tttgttctgc cactgatacc aggtgaagct tcaccttca gatccctgtc 360  
gtgacgaatg gttcgtgggt gctggggagg gattggatcc gttggattca tgagatgtgt 420  
ggattgttcc tgccagatat cgtgacatgt gtttagatct a 461

<210> 35345  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-005-Q1-K1-B10  
  
 <400> 35345  
  
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 ggacgactac gcaggcgcca cacatggcat ccagctctc cgccgccgtg ccccggttcc 120  
 acggcctccg gggctacgcc gcgcccaggt ccgcggtggc ggcgctgccg tccgtgaggg 180  
 tgggcaggaa gaggtcgtcg tcgcaggga tccgctgcga ctacatcgcc tccgccacca 240  
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 cgtc 304

<210> 35346  
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 <212> DNA  
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 <223> unsure at all n locations  
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 catggcgta cggcgaccgc tcaccacctt cgaggactcc gagaaggaga gcgagtacgg 180  
 ctatgtccgc aaggtctctg gacctgtggt tgtggctgat ggaatgggtg gtgctgccat 240  
 gtatgaactt gttcgtgtcg gacatgataa cctcattggg gaaattatcc gtcttgaggg 300  
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 <213> Zea mays  
  
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tttgcaagtct ttagctgggt ccacttttga cagtagccag cttgttttaa cagcttgcac 180  
gggatatcaa gctgtaggtg aagcaagact gcaagaattg agaaataaac accgaccatc 240  
tgctatctcc tcaatggaac agagagcaaa aggtcttcgt gtctggaggg atacgaacag 300  
gcttgcacat aggctatata attttaagcg tgacactgaa ccattgggtg cgttatcaga 360  
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<210> 35348

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B2

<400> 35348

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ggcaacaggg acgatagggg tgcaaagcga tcgggataag acggcaaggt cagaagctcg 180  
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<210> 35349

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B3

<400> 35349

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aattctcgaa tcggcccctg gttctggcag ggcagccgcc gccggcggac ggagggccct 180  
ctttgcgggt gaggcaaggc gaggcctgct ttgcctcgct gtaagctcgc cggaggaggg 240  
gaccgttgag gggaaaggac gcgcgtaatt tgtggagtgg atgtgccaat gctgaaggag 300  
gcgcgccgcc gtccatggac gccgcgcggt gggtcgcgtg cctgctcgtg acggteatct 360

gcttggcctg cgccgtcgac gtcgctacc

389

<210> 35350

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caccgcaacc gccgcctcgg cccgggctgt gttgaccccc gttgacctcc gccagcccgg 180

ccgtcatgga cctgcgcttc ccgccgacgg cgccgtcgtc ctgcttcggc ggaggcggag 240

tgctcccggc aacgtggcac caccgccgag cgcaatcgga gacgtt 286

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<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-B5

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gtcagcgctc cgtcccccact gctgttcct cctcctcgtc atgctcaaga cgtccgaaggc 180

atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcggtg 240

gggcgccact cgctcccggg gtggacgggt catggccacg tggagtacgt ctcgggcggt 300

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<210> 35352

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<212> DNA

<213> Zea mays

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<400> 35352

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 gactggaaaa gaacatcttt tcttttatgg taggttgaag aatcttaaag gttctgcatt 180  
 aatgaaggct gttgaccact ctctgaagag tgtaaactta tctcatggta atgttggtga 240  
 taagcaagtg aagaaatata gcggaggcat gaaaagaaag ctcagcgtgg caatctcatt 300  
 gattggggac cctaaaagtg tcttcatgga tgagccaagc acaggaatgg acccagcatc 360  
 aagaaataac ctatggaat 379

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 <211> 445  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-005-Q1-K1-A10  
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 tatgtctgat gagcagtgct ggcaatttta tgaaaaatat gtatgtaaag agaactcctg 180  
 aaatgagcaa agacatacac atttactcta gtgctctgaa ggcgacacta acttggcaga 240  
 atatgattac gattcaggag tgctcgcgagg cctgtggagg tcaaggtcta aagactgaga 300  
 accgcatagg aattttcaaa tctgaatttg atgttcagtc cacatttgag ggtgataaca 360  
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<210> 35354  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 35354

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gcgcnaggcc tacgacgccg gctgcgtccg tgccgtcctc gccgagctca tcctcacctt 120  
cctcttcgtc ttgcgccggcg ttggctccgc catggcaaca gggaagctgg ccggcggcgg 180  
cggggacacg gtagtggggc tgacggcggt ggcgctggcg cacacgctgg tgggtggcgt 240  
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cctcgccgtc acggggccga tcacgctgtt ccgctccgcy ctctacgtgg ccgccagct 360  
gctcggttcc acgctcggtt gcctactcct cgctttcctc gcagttgccg acagcggcgt 420  
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<210> 35355

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G4

<400> 35355

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ccagagcatg ctgagccacc gcggcgacag cgggtgccag ggccgcttct acacctacga 180  
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gcgcatgcgg gagctcgccg acttcttcgg ccagacgttc cacgaaacca ccgggggatg 300  
ggcgactgct ccggatggac cgtttgcttg gggatactgc cgggtgaagg aacataaaca 360  
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<210> 35356

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G5

<400> 35356

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atggtatgaa tttttttgac ctgaatgcat ggaggaagac aacaatcaaa gatcagtatc 120  
atcattgggt caaggggaac ttgaagtcaa acttcacact ttggaagctt ggaacattgg 180



caacaagcct tattggcttt aaaggccatg ttcacccaat tgaaccatca tggcatctgt 240  
taggcttggg ttatcaagaa aagatagatg tcagtagcgt tgaacaagca gcagttatac 300  
attataacgg gcaaagtaaa ccgtggctgg agattggttt taaacatctt cagccatttt 360  
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<210> 35357

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G6

<400> 35357

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gagcggcgct ggcggcgggc agttcgctgc caaggactac acggaccctc ccccggcgcc 120  
gctgatcgac gcggctgagc tggggtcctg gtcgctgtac cgcgccgtga tcgccgagtt 180  
catcgccacg ctgctgctcc tgtacatcac ggtggccacc gtgatcgggt acaagcacca 240  
gacggacgcg tcggcgctcg gtgccgacgc ggcgtgcggc ggcgtggggg tgctgggcat 300  
cgactgggcc ttcggcgcca tgatcttcgt cctcgtctac tgcaccgtcg gcatctcggc 360  
gggccacatc aaccccgacg tcaccttcgg ccctttcctg gcgcgcaagg tcctcctggc 420  
gcgcgcg 427

<210> 35358

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G7

<400> 35358

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gttcattgca gctgggaagc tgcactgcaa gattgataag gttgctgggt ttctggagac 120  
taaccgacct gatgagagga atgctttcta ccaggcgacc atcaagcaag gggacttctt 180  
gctgaaccgc atccagaagc tttcacgggt cattgacctg taaggactgt ttgtgttgga 240  
gctattcctg caatcggcgc ctgcaaatgt ttcccacct acgtcttcca caagacatct 300

ctccttgagt ggggattggg gaacaagccc taagaacatc tgtgttttaa gtgcagaata 360  
 tttgtgtttt aatcagtaaa cgctgtccaa aaaaaaaaaa ttgcccaaga tct 413

<210> 35359  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H10

<400> 35359

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 ttagggccct tcgccggcga cgagcacaca agcttggttg accccaaca aattgcaaaa 180  
 tgtcagccaa tgtcggtgaa tcaaccagcg gtggcagcag caatgatgca gctgggggga 240  
 gctttgaatg taacatatgc tttgagctgc ctcaagagcc aattgtgact ctttg 295

<210> 35360  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H11

<400> 35360

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 gcaattcata acattgttca gacagggtag cacggcagaa cacgtacaag cccagacgag 120  
 cactgtacat agctacaata agtcttctga catcaccaag atgaccaca aaacgggtac 180  
 tgacaagata tagtacaatg aatcatcttc gctggccctg gaacttgtcc acaatggtaa 240  
 ccttggtagg gggctcaata ttccatggtt tgcattctct gatgatcaca tcacgaataa 300  
 taagcttctg acca 314

<210> 35361  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H12

<400> 35361

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gtcaggtttg gcttgatggc taagtgggac atgaagttta tgctgcggat cctactgcca 120

gcagtgggtgc tgttgtaact gcagaatgca ctgtcacaga actttcactt ggagatcttg 180

aagggcttct gctgcaaata gccaatgacc agcacatggc cgaatcccaa tcagatcttt 240

ctgcaccaac tccacatcat aacttgaatc aagcttacat tggggattta catgaatctc 300

atggtgctcg ggttggaat ccttcttgta tagttcagga aagcacattt tgtgaaccac 360

ggacttgacc aaatgatcaa tttccacagg ctaatgtaac c 401

<210> 35362

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-H2

<400> 35362

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atagtagagg attcttatca tgcgttttgt attctgacct ttgcttggtg tgagaccag 180

tccacatgaa gatgtttttt ttatttgta ttgatacttt cagcaggtg aagcatataa 240

ttatatgc 248

<210> 35363

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H3

<400> 35363

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caatggccgc cggcgatcca tcccgtaacg cgacaccatg agggagtga tttcgatcca 120

cattggccat gccggtatcc aggtcggaaa cgcgtgctgg gagctgtact gccttgagca 180

tggcattcag gctgacggtc agatgcccgg tgacaagacc attgggggag gtgatgatgc 240

tttcaacacc ttcttcagtg agactggtgc tgggaagcac gtgccccgtg ctgtttttgt 300  
 tgaccttgaa cccactgtca tcgatgaggt gagaactggc acctaccgcc agctcttcca 360  
 ccctgagcag ctcatcattg ggaaggagga tgcagtcaac aactttgccc gtggtcacta 420  
 caccattggc aaggagattg ttgacctgtg 450

<210> 35364

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H4

<400> 35364

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 attccgtcgg gctcaacgcc actggccacc agtacttgct ctgcggctac ccgggccact 120  
 gcgctgccgg ccagaagggtg gacatccgcg tcgcctcttc tgctgcccct tccgccgcac 180  
 cgtcgccgac cccctacggc tccaagccct gcggcgggcg cacggtcgcg ccgtcgccgc 240  
 accctaacgc cgcgccgaag gccctctccg ccagctccgt agccgcgggt gtcgccacgt 300  
 ccctgctctc cctggccgcg gccgtgctgg catgatcact tgatcaggat cgcgtagtgc 360  
 tggccagggg acagcgcctt tgcgaattgt gagagctcgg act 403

<210> 35365

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 35365

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 ggctcggctc gcccatcttc gcgccaaagca ccgaatctcc gatggccccgc acgaagcaga 120  
 cggcgcgcaa gtcgacgggc ggcaaggcgc cccgcaagca gctggccacc aaggcggcgc 180  
 gcaagtcggc gccggcaacc ggtggcgtga agaagcctca ccgcttccgc cccggcaccg 240  
 tcgcgctccg ggagattcgc aagtaccaga agagcacgga gctgctcatc cgcaagctgc 300

ccttccagcg cctcgtccgt gagatcgcg aggatttcaa gaccgacctn cgcttccagt 360  
 cctccgctgt cgccgcgctg caggaggccg ccgaggccta cctcgtgggg ctcttcgagg 420  
 acaccaacct ttggggccatc cacgccaagc gcg 453

<210> 35366  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-004-Q1-K1-H6  
 <400> 35366

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 gagccaagcg gagctggagc tgcgatgaag aagatcttcg gcgccaagga aggacaaggg 120  
 gcccgggccc cttcattcaa gacgccccg aacgcattaa ccaaccgggt taaaccgggg 180  
 ccagaagatc caaaacttga ccaggagctc tccccgtgca cagggcacat cccaagacc 240  
 cgtcccgggc cgttccaaga agccatctag gcacccgcca tacgactcct caagcacaag 300  
 cgcattgtacc acgagcaacg caacatgttg tacaacaaa cctacaatct cgaccaaatt 360  
 ggctttgctg ccgatggcct caaggatgct caacagacta tgaatgccat gaaggcagca 420  
 aacaaggagc tcattggaat gatgaaa 447

<210> 35367  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-004-Q1-K1-H8  
 <400> 35367

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 tcccttgcaa gttcagtctc gcctccaacc atgggtaaaag agaagtcca catcaacatt 120  
 ggggttattg gccatgtcga ctctggcaag tcgaccacca caggacacct tatctacaag 180  
 cttggaagca ttgacaagcg tgtgatcgag aggtttgaga aggaagctgc tgaaatgaac 240  
 aagcggctct tcaagtacgc ctgggtgctc gacaagctca aggctgagcg tgagagaggt 300  
 atcaccattg atattgctct gtggaagttt gagaccacca agtactactg cacggtcatt 360

gatgcccctg gacaccgtga cttcatcaag aacatgatca ctg 403

<210> 35368

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G2

<400> 35368

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cctcgctatg caaactaatg gagtattgtt tgagtccagc tgttattacg cttcaggacc 120

gcctgaagga aatgaactt cggctatcta tgttaaaaga ggagtgtgtaag caactggagg 180

ctgataccca aggcatgaga aatgggttctc ctgcgtgcct catgaatcac ggagctggtg 240

gcagcgggttc acctatggct cagagcaggc atcctttctc cagccaaggg agccctagaa 300

gcccgcgcgg cggcagccgg aggagggtt gatgatgac ttgctccgcc tgatgcgttg 360

atgaactgtc cgttgtggct taaccagatg ctttctgaaa acccagatat ttgacggacg 420

aagtgcccag acaacagaca ctgtacctgt acataccc 458

<210> 35369

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-H9

<400> 35369

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gcccacgcgt ccggccacgc gtccgtccac gcgtgcgccc acgcgtccgg tacttccaaa 120

gttccacagt tccactgcac agatcgtcgg cggcggcgca ggcaaggcca caatgtcttc 180

ggcgcccagc agcggcaagc gcgggaggggt tcccgcaccg gaggaagacg tctacgtcga 240

caacctccac tcccacaagc gctaccttac cgagataatg gcatccagca tgaatggctt 300

gtccgttggg gattcagttc ctgacaatat catgggggtcc ccaatgagag t 351

<210> 35370

<211> 224

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 35370  
  
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 ctttgacaag cttgggtgta gccatattct cggagagtagt agaattggagt taccagagta 120  
 caacacgatt gaaccttatg cgaaaatgaa cgagaactgt ccgtccttgc cctcatctta 180  
 caaacgaccc gaacgctgct gactacgaga ttgtctacta tgta 224

<210> 35371  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-E7  
  
 <400> 35371  
  
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 gcacacttaa aatgacgtat ggcctatcat actaaccat cataaacatc tccttgacta 120  
 atctttatct acacctgcac aactacaagt tcacatcgag ataaacctgc ctgatgaaaa 180  
 tgctacgctt caaattcttc atattcatatc atataatact aatgataatt ctctactatc 240  
 accagatatt aatctacttg at 262

<210> 35372  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccngatggga atgtccgctt aggcgagggg tgggacgagg acgacgtgct ggagccgcag 120  
 ccgctggagg tcatagcgcc ggatgtcaag tccaagaagc gcaatccggc gcccgagatt 180  
 cgggttggtg gtcgccggat ctacgatcca gagaatggca agacctgcca ccaatgccgt 240

cagaagacaa cagacttcgc agcggcgtgc aagcaagtca agaagaagg tccgtgcccc 300  
 gtcaagtatt gcctcaagtg cctccttaac aggtatggcg agagtgccga ggaagcggcc 360  
 ggcaaggaag actggatctg tcctaagtgc atgggcatct gcaactgcag cttctgtaga 420  
 aaggagaaag gccagatgcc aactgggata atggcccaca 460

<210> 35373

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E9

<400> 35373

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 tcaacagggtt gcattaagcc gggatgcata tcctgatgct gcttttcgga ctgatgtcgc 120  
 taagcgtgca tttgttggtt ggatgagaga tctacgtggc atagctatag caaccaacag 180  
 ccgaagaca tatggcctcc tattcgactg gatgtatcca tctcgcatgc cacttctgct 240  
 gatagccatc taactttgca ctgatgaacc agatgtcacc acacccttgc tcaagttcac 300  
 gtttgaattt atttttgaac aaaactcaaa aactgacatc agatttatca tcaccaaa 358

<210> 35374

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F1

<400> 35374

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 aagtgatcag gagcgacac attgacacaa aggtgcgagc agggagaacc atcccacgga 180  
 ggatctacat gttcacagat ccaggatccc cgggcaggaa acatgttgcg agagcatcac 240  
 atgagccgaa agcagagatc acaacatctg aaggaaaaca tatccatgaa attcctgttt 300  
 ccaggaatgc aagcc 315



<210> 35375  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-F10  
  
 <400> 35375  
  
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 cttattatct ttccagtcgt gccatacttg atcctcgcta tcttttacac tttctgggtt 180  
 tcagcagcac ttcactcttt cagcgctgt caagttatac aaaatgattg caatacagat 240  
 tgctgttctt acgatctgaa acttggcaaa gttaaattgtg acagatgttg tggctacact 300  
 atccattaca cccacatat tggcatcgcc attcttttcc atctttttgg ctgttactgg 360  
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<210> 35376  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-F11  
  
 <400> 35376  
  
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 ttatatgctc atgtggtggt tcgggtattg acttaagtct ctggctaaag aaagtgaac 180  
 accacctatt acggcttctc ctatatataa aatatatatg tagcagattg ttttcaacca 240  
 tcttgtgaag agttctgac ttttgtttct tcgatatagc gaaatatata gatgagaatg 300  
 tctctgtgtt tgtaacgttt gtgtagtggt atttccgttg agttgatata tatgacatgt 360  
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<210> 35377  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-F12

<400> 35377

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ccattgatcc ttaccttgtc tcacaccatc tcatcctttc ttatgcttct tttgtcaagc 180

tataacctata caagtctcat ctttaccaga acgggaagat tgtaatacta ctggatttct 240

tgtggtacta acctt 255

<210> 35378

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F2

<400> 35378

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<210> 35379

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-F3

<400> 35379

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gttcaagatc ttctgccgcg ccaacgagaa ctactgctg gccgtccgcg acggcgccgt 180

cgtgctgggc cccgtcaacc ccaaggacga ccaccagcac tgggtacaagg acatgcgctt 240

taacacccgg gtcaaggacg aagaaggcat gccggcgctt gcgctcgtca acaaggccac 300

ggggctcgcc atcaagcact ccctcggcca gtcccacccg gtcaagctcg cgcctttcag 360

cccgaccag gaggacgcgt cgggtgctgtg gacggagagc aaggacgtgg gcaagggctt 420

nccgtgcatt cggatggtca acaacac 447

<210> 35380

<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F4

<400> 35380

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cccaaactcg acgcgcaggt acgagaatta gccaccagcc gacgggatct cgatggcgag 180  
ctccgcgtag cagaaggaca agagcagcac cgccagggtcc ccaaaccatt ttcgcgcggg 240  
tataaaaggc tatcatgaag ctttctgggtc aaagtcccaa aagaatgaga gacctatcaa 300  
atcagcaagc ccgaggactg ggaatgtaag ccaacgcca aaaagttctt cgtctgggtc 360  
tacggcaccg atgagatgtt tatgcgccat cctgagtatt ccagctttcc tatatggaca 420  
gtttgaacct aaggtttgct gtgtaatcta atatcaacag ttgcactc 468

<210> 35381  
<211> 268  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F5

<400> 35381

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tgagcacaga ttgaaggtcg agaacggtct ataagagagt acacctcagg gccccctgat 180  
taacgaaact gctgcgcaaa aggtggagaa gaccacaaaa gacgcaacct ctaagggagc 240  
aaatgtcatg ccaagacgga aaagacac 268

<210> 35382  
<211> 461  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-F6

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 gcctgaggag attaccaaag aagagtatgc tgctttctac aagagcttga ccaacgactg 180  
 ggaggagcat ctgccgtta agcacttctc tgttgagggt cagcttgagt tcaaggctgt 240  
 cctgtttgtg ccgaagaggg ccccttttga cctcttcgac accaggaaga aactgaacaa 300  
 catcaagctc tatgtgcgcc gtgtcttcat catggacaac tgtgaagagc tgatcccaga 360  
 gtggctgagc tttgtcaagg gcattgttga ctctgaggac ctccnctca acatctnccg 420  
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<210> 35383

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F8

<400> 35383

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 tcagttatgc acaaattgtgt ggtccatttc attcctcagc aaaaacagat tcccagtcta 180  
 aagcagcatc cgggatttat tgtccagaag gtctatgatg cagttgagaa gaaactgtgg 240  
 aacctaacag acaaggacta tgaggataac aagcagcaag agattgatct tctggttaag 300  
 aaaacaatag accgtattgg gcagcttctt gatctcgaac ctgaagagac acctcttgag 360  
 aacaattatt tgtcaaataa acgaggcctg cgtaagaaac ctgttaaccc ta 412

<210> 35384

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F9

<400> 35384

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ttttaaacaataatacaagga ttatgtccca cagtgtcat gaaggacata atggatgaga 180  
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 gctctatatt cttaaaagct gctagcgatg tgtatcatct ttattgggtc ttgacacctc 300  
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 atggagaatc caagtagtca gccttctggt ggagcacana tgtcccaaac tggattaatg 240  
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<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 cggccgacca ttcaagcgtc ttggccggcg agtctacagc tcggagcacg tccacggctg 300  
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<210> 35396

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D3

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 <213> Zea mays  
  
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 ctagatgcta ctgcctccag agctcgacga catcgatacg tccggcactc gccatgcgga 240  
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<223> Clone ID: LIB3069-004-Q1-K1-D7

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<211> 458

<212> DNA

<213> Zea mays

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catccaacat agcaatagtg tccactggtg atgacaaagc aaaggctgtt cacatagcag 360  
tttctgacat ggccgaaggt cttgatgctc ctacatcact gcctgctaga atgggtccagc 420  
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<210> 35401

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D9

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gtggccgctc tcgtcgctgc catcttcatg ccggccgtcg catcggcgca ggcaccggcg 240

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<210> 35402

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<212> DNA

<213> Zea mays

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aggtgccggc tgagctgctg gcggtgaca gtcagacgcc ttttcccaa actaaggcac 180

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<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E10

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<210> 35404

<211> 252

<212> DNA

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<210> 35405

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E2

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<210> 35406

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<223> Clone ID: LIB3069-004-Q1-K1-E3

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<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E5

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ccccctcgcc ttccggcacc ccggcgcgcg tcgcgctttc cctgtacggc tgctccaggc 240

ttctacactc gcgccgcgcc ggcgcgccct ggccgtgagg gccagagcg acgacgccga 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B1

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<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-B11

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305

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<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B2

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<210> 35413

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B4

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 cgtacaaggg aaatcttcag tggttgcacg tgcaatggat gagcctccaa aacctgtgtc 240  
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 gaaagctacc tccggtcggg gcagcgagta aaccgtccgg ccggcgcgcg tcgttggata 300  
 tatgatgagt ggacgtgaca gagtgtccca ttatttctta atttcgtcat ttactcctt 360  
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 ccccgcgctc ggatatctcc acaccatcc cgcagagggc agccccgctg cctccctttt 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

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gcggaggcgc ccgagaccgc cgtccccacc cagccgcctc ccgcgcgccc ggcttcgtcc 180  
ccgcctccca agtcggggat cccgcgcgcg tacgacctgg acgccaagtg ggacgcgtgc 240  
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<210> 35419

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C12

<400> 35419

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<210> 35420

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C2

<400> 35420

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cttcgcgcca catcgcacga cctccccgaa gcagacgtgc ccgctgcccg tccgtccccc 180  
gtggccatgg ccgcgacgtg gtcttcgtct tgctgcgccg cgaccgcgtc gagcagcgtc 240  
ctgcttcgtc atgccgcgt caagagcgcg ccttgggtag ccggtgccag ccggagtagc 300  
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tcggccgtgg tctacgcgga cgccggcgcc gacaacgtgg cctcgctgaa gatcaagctc 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C3

<400> 35421

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 tgtatatgcg cctggctggg ccaggcagca gggagatgac tgtgccggga aggccatccg 180  
 accagctggg caggaaagtc gtcactgaca ggcccgtgta cgacggccgt ggcgcctact 240  
 cccgtctcgt ggctcgcata caaggagtca cggtccttgt ccgtaacgca tacgccttgt 300  
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<210> 35422  
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<223> Clone ID: LIB3069-004-Q1-K1-C4

<400> 35422

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 cttctcgagc gccgcgcgga gcacggggac attaa 155

<210> 35423  
 <211> 155  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C5

<400> 35423

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ctgccgtggt ggtgaagaag atcactttgc gcgtg 155

<210> 35424  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C6

<400> 35424

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ccaagttggc catggccttc aacaagatca aggtcgccaa ccccatcgtc cagatggacc 180  
gcgatgagat gaccaaggtg ttctggaaat ctatcaagga caagcttata ttccctttcg 240  
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aagtcacagt ggaagctgct gaagccacac tcaagtacaa tgtggctatc aagtgtgcca 360  
ccattacacc agatgaagca agggtaaagg agtttggtt gaaggctatg tggaagagcc 420  
caaatggcac aattaggaat attctgaatg gcact 455

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C7

<400> 35425

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tcgtttcgat cgtggtttgg tgacttggtg agaggggagg ggagaagcgg cgatgtcggg 180  
cgtgttcggc aggggtgttcg ggaagtccaa ggagcagagc caggccaccg cgctggcctc 240  
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aaaggccaat cttg 314

<210> 35426

<211> 469  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A9

<400> 35426

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ataacattct cctagcccac gctgaggctg ttgatcttta caacaagcat tacaagcgcg 180  
acgacacccg catagggcctt gcgtttgacg taatgggtcg tgtgccatac ggaacatcgt 240  
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cagtggttcg tggtgactac cccttctcca tgagatcatt ggctagggaa cgactaccct 360  
tcttcaagga cgagcagaag gagaagctcg ccggttecta taacatgttg gggttaaact 420  
actacacctc acggttctcc aaaaacatcg atatctcacc aaactactc 469

<210> 35427  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G9

<400> 35427

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ttcgccgccc gtgaccatgg cccaagccg tcggaggtgt acggcttcgt tggatccatc 180  
accacgtca ttgccaccgc cgtgtacctc gcctgggcat acacgccga gcccgctctc 240  
cagtcactcg gcatcaccta ctaccctagc aagtactggg cactggcggt gccatcgttc 300  
gtggttgtga ccgtgggtgct gtccatgggc atctacatgg gcctcaactt cgctgccact 360  
cctcctccga ctctcttcag tactatcttc gatgaaaaga gtatggagca cacaaccttt 420  
tttctgcaa c 431

<210> 35428  
<211> 220  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-003-Q1-K1-H1

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gggttttgtc tttgtttctg tcgtccgaat ggagcgagtg gtgatggtga agtgtgtcag 180

aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 35429

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H10

<400> 35429

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gaaaatgaac ttgggctagc tattgtttaca agaggaggct aagcaacttg atgcttatac 120

ccaaatcatg ataaacggtt ctctcgtcg cctcatgaat catggagctg gtggcaagag 180

ttcacctacg gtcacagca ggcatecttt ctccaaccaa ggtagcccta gaatcccgag 240

cgggtggcagc ctgaggaggg cttgttgatg atcctgttcc gcctgatcca ttggcttgtg 300

gcttaaccag atgctccctg aatccccgat atatgatgga tggacgaagt gccccggcaa 360

tagcactgta cctgtacata cccattgccg ttcagcgtg tgctgttggt gaatcccaac 420

ggtctcactt tgttttgt 438

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<212> DNA

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<223> Clone ID: LIB3069-003-Q1-K1-H11

<400> 35430

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aggcgttacc tagtttgccc accagagata gatagaacat ctgccgagta cttggtgaag 120

aatggcatcc gcaatcatgc tcgcattgag acagtttaat tcggccatgt cacatttttc 180  
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 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H12

<400> 35431

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 cttctcacct tcaacaactg acaaggaagc tacggctcca acaccgttgg ggggctcggc 180  
 tacttcaagt tccatcgcg agcaccctgc atcgatatcg tctgagatcg atctcgattc 240  
 aaaaatcaca ttaaagaacc tcggccggga tgaattgaac aagaagctct tttctttttc 300  
 gtaataagat atatacatat gaatcaaata atagcttcaa ctctttgggt taattttggt 360  
 gctttttcta ttctattttg tttggatggg 390

<210> 35432  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H2

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 aaagatacag gctaacaaac gcatgcatgc aaagcaatac atgtcatata agaaagccta 180  
 aattgacaca actgatcgtc tagtaacaac gaagcctcat gtaaaa 226

<210> 35433  
 <211> 195  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H4



<400> 35433

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gacgagcggt cgcgcgccgt gctggtggac aaagcgggcg gacccagcga aggggtacaac 120

gagctcgtgg ccacactgcc cggctacgac tgccgctacg ccgctcttca cttcgacttc 180

ttaactgttg acaac 195

<210> 35434

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H5

<400> 35434

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gtatagcaac acatcaaacc cattgctaga ttgattcact gtggagaaaa tgcggtacgt 180

accagtttctg gacttggatg aagagtacag gtctagttgc cattgtagag atggatagga 240

tagatgggtc gagtcgttgg taaggatatgt agagagacaa aggaggaggg acgtggctag 300

tgtggttcat gtcatttgca tatatatata gtatatgata tgccttttctg gtggtctgtg 360

gtgctgatac tactatacat atagatcatg ctgacatttg tggtgatgaa tcaaaagatg 420

tatctaaggt cttttc 436

<210> 35435

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-003-Q1-K1-H6

<400> 35435

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ccgtggccaa ggaggaatcc aagaaggaga agaagaaggc caaggccaag gtggccaatg 120

gagccgccgc cgccgccgcc gccccggtcc ctggcgcgag ggccgcggtg gtcgcctccg 180

tcgccgcctt cctcgagtcc gctgggctct cgcgcacgct cgtcgccctc caatccgagg 240  
ccggcctcga ggccggtgcg tgggggtcgt cacaggtgaa cttggaggag ctggttgcca 300  
gattcttaga gtcgagcaat tcaactcggg cggctgccat tctgggaagc gatgagcaag 360  
aacaggaaaa tgatgatata gcangagaag ttggcaagga aaaaaagaag agcggcacat 420  
aaaccggtga g 431

<210> 35436  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H8

<400> 35436

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gcgctctaggt cgccgttctc tgcattgctgc tggctcttcgc catcttcccc ctccctctct 180  
ggcgccgccg ctccgatgcc gtcacctcgc ataaccaccg cgtcccgcgc cagccccctcc 240  
agtaggatca cgtgctgcac ggctcgcgcgt cggcgcgacc gatgcttaag atgcctgaag 300  
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<210> 35437  
<211> 58  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-004-Q1-K1-A1

<400> 35437

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<210> 35438  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A11

<400> 35438

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cactgcggct atgtctccgc ggtcggtgac cccggcatgc tgccgcgacag cctccgtgtg 180  
gcatgggagg cgtggaactg ctgcaacgaa gacggtcagg aagcccccg catgggcagc 240  
ccacgcagtg ccaattgcta cgatcttctc ggaccgacca ttccatctct aactatcctc 300  
tatcaccgta gagagtgaat gggttgccac caagattagg tctctgagga agcgtg 356

<210> 35439  
<211> 148  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A2

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aattacatag accatagaca cactacta 148

<210> 35440  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A4

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gaagaagacc gattaagtga cgaaccctct gttcgagaaa aagccgaaac agttcggcat 180  
cggcggcgcg ttgccttcca agaaagacct gcaccgattc gtcaagtggc ccaaagtcgt 240  
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ccagttcacc cgcaccctct acaagaacct tgctaccaac ctgttcaaga tgcttcttaa 360  
gtaccggccc gaaaacaagg ctgtcaagaa ggagaagctt cttaaaaggg cccaggctta 420  
gaatgaagga aaaactgttg aatt 444

<210> 35441  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A5

<400> 35441

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tgcgtagctg cgtgtccatg gggaacacgc cgtcgtgcat accgcttgcg cccgcggggg 240  
gcggcgcctc ggcgggcgcg accagcgcag ccaccgaggt gatccacgcg gacggcaccg 300  
tcacccgget ggcgcgcccc gtgcgcgcgt cggagctcat gctccaccac ccgggcccgt 360  
tcgtctgcga c 371

<210> 35442  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A6

<400> 35442

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ttcttgtagc tcttgagca tctacaagg gtgggcgact cagcaaaatc tgctggcatc 180  
tctctcttt tcttgcatcg aattttgtaa ttgccgactg aaccgtgcag agaagtcttg 240  
acaagcgcag gggcggaggt ggagatgggg aatcgtgcga tctcctccaa gtcctttttg 300  
agggggcctt ggctggaaga gctgctggtg ttgttggtga aacagcttta tctctattg 360  
atacgataaa gaccaggctt caggctgcac aaggcggaag taaaattcaa tggacagcgc 420  
ttctgcaatt ttggtggag tatatgaacc agctaaaag 459

<210> 35443  
<211> 444

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G7

<400> 35443

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cctttgggca ctcatcatgg acgctggaac tggtttctgt tctcaagttt acgagctctc   180
accagttttt ctccacaagg actggataat ggagcagtgg cagaaaagtt actacataac   240
agcaattgct ggatcaacca atgggagttc attggttgtc atgtccaaag gaactcctta   300
cactcagcaa tcatacaagg ttagcgaatc ggtcccttac aagtggatca atataaagtg   360
gaaagaaggg ttccatgtaa catctatggc cactgctgga aaccgcttgt gcgtagttat   420
gtcaaggaac tcatggtttt ctac                                     444
  
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<210> 35444  
 <211> 152  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A7

<400> 35444

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agctcaatat tgttattgaa gtgttattgc tt                                     152
  
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<210> 35445  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E9

<400> 35445

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ttaataaaaa aaaaaaaacc ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca   120
aaaaaaaaaa aaaaaaaca acaaaaacca aaacacaaa accaaaaca caaacaaaa   180
  
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caataacaac aaaaaaatac aaacacaaaa aaaaaaacca aa

222

<210> 35446  
<211> 486  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F10

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cctacttata tgatgcctct aggcaatggg cagccacaaa tgaaggcagt tctcttctgg 180  
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gaggggtcgc gagggcagat cccgcctcgc gcgcctcacc ctcgtgcagg cgctgcacct 180  
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gaggaccatg gcagtgtgtc ttcggcttta cacaagcttg tcatcaattg cggttgcatt 360  
ctctgtgacg tgcattatcc ggtcagagtt gttcttgaag gttatgaagc aaaacacaga 420

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<223> Clone ID: LIB3069-003-Q1-K1-F12

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cggcgggtggc gctgggggtgg aagtcgtcgg agcagcagcg cgagatccag agcctgttgg 180  
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gccacatcta cggcgaggag gagcccgcgc cgctcgcgcc cgcgcccgcg ccgccaggag 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F3

<400> 35449

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cttcgagtgc ggttgctgct gttcatctg cggatattct tccacacact gactcggtat 180  
ccattctacg gacagaccga ccaatcgacc catccgtcca ccgagagcca tgaggcacia 240  
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tcagccttc 309

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<212> DNA  
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<223> Clone ID: LIB3069-003-Q1-K1-F4

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 gccgcggtcc tggcagcgac gctgctgctg ctgtcggcgt agcccgacac agcctctacc 180  
 catgtgacct acagccaggt gacatcatcc atagcgccat gcctagcgaa cacgatgagc 240  
 aacacgacat cgacctccga agcgagctgc aacgggtctgc gctcgctcaa caaccgcgcg 300  
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<223> Clone ID: LIB3069-003-Q1-K1-F5

<400> 35451

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 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F6

<400> 35452

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 cccgctcctt ccgtccgtcc ttctccccc cttccctctt cctcttcca accgccgctc 180  
 ctgctgcctt gcctctcagc ccagggacgc caagggtctt gccaggatgg tgtatgccgt 240  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F8

<400> 35453

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aatcctcttc ctcttcgcag actccgtaca gcatcccatc aactttctatc cctacatata 180  
acaacattca tctatcacac atagactctc acacccttaa ccaaacctgc aatgactacc 240  
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ttatccaacc acc 313

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F9

<400> 35454

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ggcgcgcgct ccctacgccg gctccgcccc gccgccatgg gctccagagt ccttcactta 180  
gacgttcctg cacattctga ggcctatctt atgagaaatg taccagggag tgtaagtagc 240  
cctcgcacga atggtgaaaa gggctctctt cgaaatcaga atgcgggggt cactgcactt 300  
gcaagtccctg tgaggagaga aatcggaac agatcgtcta caaggctcct ctgtgttgaa 360  
gacaatgact tggaagatgg taagacctca aaagaaaggg agggttctgc acagtactc 420  
aggctcccaa agattcagaa tcaggctctc ttatctggtc tggc 464

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<211> 264  
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<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G1

<400> 35455

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gatcgccctg ccaccagaga ccaaccaact gctatgattc atcatcaaga ccttatactc 180

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cacgaccgcg agtatgacga gcac 264

<210> 35456

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G10

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tgcccgagga gtctgcccc gtcgaggccg aggccgagge cgaggctgct gcttctgctg 240

atcccgagga gcttcccgcg gccgagcagc aggcacccgc cgatgcggag gccgctgctc 300

ctgctggagc cgatgatccc gtctcggtcg atccggccgt cgaggcggag gctgctgctc 360

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<210> 35457

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G11

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ttttgtcagg ggagggtgctg tttaatacaa gtgctcttaa gcgcctcaca gaggaagctg 120

aaagaagccc aaagaacgag aagattcaga tggaaatgaa gaagaagacc gatgaaatta 180

aggggaagca gcaacagata gcatcttttg agagagagat agctcatgca acattaggaa 240  
 ctcaaggaaa ggctgatacg ttagagcatt caccgtotta tcatgaacta cttgagcagc 300  
 tcaatgagaa atcttttagaa cttgaagtga aggctgcaga taatagagtg atacaagatc 360  
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<210> 35458  
 <211> 430  
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 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G12

<400> 35458

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 ctgctcttcc ggagggatga aggatgatgg agaaggctct taccaagctc ggcagcttca 180  
 caatcttccg caaggccaag caggagctct ccgccatcgg tgacgacatc tcccgttttt 240  
 cgagcacggt ggaggagaag gcaaaatggg tgttcgagaa actcataggg cacaagaagt 300  
 cgctccctga tctactgcgc gagcacaacc tccctccagg tctcttccct cgtaacatca 360  
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<210> 35459  
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<223> unsure at all n locations  
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 gagcccgtgg ccccggcgga taaagcccc gctgtgaata agcctaattg ggataaactg 180  
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gccagaaga gcgtggagac gtacaagatc tacatcttca aggtgctgaa gcatgtgcac 300  
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<210> 35460  
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<223> Clone ID: LIB3069-003-Q1-K1-G5

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acatgtacct tcaggatcca catgtcaatg tcactactt gctagaaatc atgattctga 180  
tcatgaagct catcttgtaa tacaactgaa agtgaagctc gacttataag acaactatac 240  
aaagtaagac actccataat tcacaacaga tcaaacgatg tctgttgctt tgattgatga 300  
cccttgctgt gctcattgat actcactcgc atacttaatc ctcttcccca tttgtgggtga 360  
tagccacaac ccaagataca ttctaaactg cagttagaac tcatttgaca tataacgctt 420  
acttcaacgg ttaatcac 438

<210> 35461  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E7

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ttgttgctga ttgccaaggg gtgggtcggc cgatgtagcg tctatgcatg gcttgtagtt 180  
ctcctgtaat gttgttgta atttccgctt ggcggcttgt aatcttacgt gtatctggaa 240  
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<210> 35462  
<211> 330  
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<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G6

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ctaacaacta ccttcagaat ccacatctca atctcaacta cttgctagaa atcatgattc  180
tgatcaggaa actcatcttg aaatacaact gaaagtgtag ctcatcttat aagacaactt  240
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<210> 35463

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D12

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gctgacacta tatacatcag ggatcacgcc tgaaaccaac atcgtacctt catacatggc  180
acctgaattg actctcatat cgctcacatc taccaacaag tgataattat acacattccg  240
agcaatagca cttgatatgc tgtcatgcac aagcccagac atgccagtcc gaaaaactgt  300
cgtcttgctg tgatatcttg tcatctatcc actcctagat tatatgccga atgatattca  360
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<213> Zea mays

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cgttcctcat catattcaca taccaagcct accaagtgtc cgacatctat tactagaaca 180  
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<223> Clone ID: LIB3069-003-Q1-K1-D3

<400> 35465

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tttgctgac cattgataaa cggacactat ccacagatca tgcaagatct cgtgaaagaa 180  
acgtgtcca cgttcactcc tgagcacgct aaactggtga agggctcggc agactacatc 240  
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<223> Clone ID: LIB3069-003-Q1-K1-D4

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ttagtcgaga acgtatccgt cacgagattg acctcatgat gtcagacata caccctgtta 180  
aagcaatgtg tgacatccgc gatttggggc tattttatgt tgcattgtct tttcctgaaa 240  
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cttgagatct tgcataattt attggcagct tgttgctcag cagtgggtct gacttcaagt 360

cgcacgatga gogaacaaag ctaggcttgt ctagtgcatt attcaacccc ctccgaagca 420  
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<223> Clone ID: LIB3069-003-Q1-K1-D5

<400> 35467

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 aacagcatga tcaccattta acgcttgcta acaccatcac tcatgtggat aacaacatgc 180  
 aacttgtgac ctccagagat gacacgtcta tacctgtgtg gaagccctgc atcccagtac 240  
 tgatacacta tatcagtgag cctcacatgc actcaacgcc atcaattgca ctacatacta 300  
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<223> Clone ID: LIB3069-003-Q1-K1-D6

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 aagatgatcc cgtcgtcctc aaagccctct actatatata tatcctgaac gaagaaacca 180  
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<210> 35469  
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<223> unsure at all n locations  
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 <223> Clone ID: LIB3069-003-Q1-K1-D8  
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 <213> Zea mays  
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ccaacccttc tctacatcac aaccatcaat cacactacca ctcacatatt taatcatcat 240  
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<223> Clone ID: LIB3069-003-Q1-K1-E1

<400> 35472

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<223> Clone ID: LIB3069-003-Q1-K1-E10

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 <223> Clone ID: LIB3069-003-Q1-K1-E11  
  
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 gagttcccca ccgaccccaa gccttcagag gaggaaatgg tcgcggaacta cgtcaagacc 420  
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 <223> Clone ID: LIB3069-003-Q1-K1-E2  
  
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 ccatctacaa tcagctattg ctgacgcact cacgtctatc ccagaaccaa tacctgatgc 180  
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 gaaacctctt gcacaactga tgccacaaaa caataatcgc aatgctccat ctgatgtgca 300  
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 <213> Zea mays  
  
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<400> 35476

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taaaccagat cataaacctg agccaaagcc agagcctaaa cccataccta aaccagagcc 180

aaagccagat ccacaaccaa taccagagcc taagccagag cctaaacccg aaccgaaacc 240

tgatccaaag ccagagcccc aacctaagcc atagcctaag cctgagccat aaccataacc 300

aaagccagta ccacaaccaa agcctgaacc taaaccagaa ccaaaacc 348

<210> 35477

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E5

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ccttcgaccc caagctccct ttcaaagtgt tcagcgtgcc cgaggcgggc ccctttaccg 180

cggtgctcaa gtacgccgcg gaggagtcca aggtcccgcc ccagaccagc gccatcatca 240

ccaacgatgg aattggcatc aacccccagc aaagtgcatt caacgtgttt ctgaaacatg 300

gttcggaact gcgtctcatc cctcgcgata gggctggagc tgtagtcatg tcttccgggt 360

agaggatata tacagtccaa tgcataatga gcaaaacttg agagaaataa agctttgatg 420

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<210> 35478

<211> 415

<212> DNA

<213> Zea mays

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<400> 35478

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ccacatcact atggagcata atgtttgctc ggacagtaga actcaggaat agaggcaccg 180  
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 tttgtgttgt cattgtcgct gtgcacccct attgttttac cccttgtcca aaaagggatg 300  
 cattattatg ttgagaggaa gggtatagag gtttcgcaat aaaatgcacc tagccaattg 360  
 atagtatgaa tcagatatat aatctaattt atgactgcct attcgccttg taccc 415

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 <211> 462  
 <212> DNA  
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<223> Clone ID: LIB3069-003-Q1-K1-E6

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 cgccagcacc gcgagatcac cgagcgcttg cgcgaccccc gtggccttcg ccgcggcgcc 180  
 cccggccctg gtcttgacc tgggcccgcc cgcccgtcc gtggcttcgt gagaccccat 240  
 gtgggtgcgg aagtggcgga tcaggctccg cagaagcgtc ggctgctatc agccgtagtt 300  
 aaggttgatg gcgctgaaaa taatgaagaa ggcacaaagg atgccaatgg ggaggggcaa 360  
 gaggcgggtt caggtgccac tgaaggcagt gacaggagga ctttcaacac tggcgggttc 420  
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<210> 35480  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B7

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 aagcatcttc tactccaagg ccactattgc cctcaacgac cacttcatca aactcttctc 180  
 gtgttacaac aactaatgag tctacagcaa cctcgtcgac tacctgatcc gtcacatgtt 240

caataccccac tatgctacta tagagataga tttctacctc actatcgagg gtcgtcacca 300  
atgtcctttg aactctgacc atctttgctg cttgtctat 339

<210> 35481  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B9

<400> 35481

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atattcatag atcattgatc atattatcca aaacgttttg atactacaag acagattata 180  
tgcacaagcc tattcacaag atatgactcc ctccagaacta ccctacccaa acaccaaccc 240  
ctgaaatgaa ccaaggaata tttattttaa aacataaaat ctctgactac aacaaatcac 300  
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<210> 35482  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C1

<400> 35482

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cctgtgttac tgtcatgacc gtgtcaagta cctaggatca ttttgctcac agacgcactc 180  
gaacttgacc tgaatgttcc ctggagacta cagatgggac accggcagtc tgtccacaaa 240  
cccataggcg ttccgacaga acaagacgac agaggtgatc caatgtcggg agtcgatgct 300  
ttgttcactc ggctacata 319

<210> 35483  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C11

<400> 35483

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tggcgctgat gcccatcgcg aagcccctcg ctggaaagaa gctctgcaag cggaccctca 180  
agctcgtgcg acgagcctct gaggccaagt gcctcaagcg ctgagtcaaa gaggtagtca 240  
agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt tctcctattg 300  
atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac atatatgttc 360  
catcaaaaga ggatcttgcg accgcatgaa ccactaatag gccaaattgt tgcgtcctgg 420  
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<210> 35484

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C12

<400> 35484

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tagaaaggta caacaccaa ttataccaat tgatcgacca atttaacatg cagacggccc 180  
tatattcttg cctaattcta gacgacttca tctaattcac taccaaccag gactacatca 240  
gtaacaacct cttgttatcc gtatactctt cttccgtcaa caccgatgtc aatatcaatg 300  
acgtcatcaa gctcaagcta cacgacagaa gatccagact aatccgctac gttaagcttg 360  
actttgcttg cgccgaaagc agcagcacca acaatgacga ccgctacaac aacaacaacc 420  
tacacaacaa cgacaacaa 439

<210> 35485

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C3

<400> 35485

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tacctcttgc catccattca gtcaccgacg ccgaggctga ctatggagga cgcgctcgcg 180

aacgccgagg ccccatgtt ctactgcctc gactcgctat tctcggacac cgacatcgac 240

ccacgccgag atgtgcgcat gctcatcgtc aactgtagcc tcttcaacac tacgccatct 300

ctcgcgtcca tggtagtgca c 321

<210> 35486

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C4

<400> 35486

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tgccgcgcgc ggggtcttca acgccgacgg ctgctgccgc tacgcgacgc cgcccaagcc 180

gctgctgtac aacgccatgc tccgtggcta cctctgcctg ggctctccgc gcgaggccgt 240

tgcgctcctg cgcgccatgc ttgcgtccgg ctctgcgcgc ccgaccgcc acacgtatca 300

cctggccgcc acggcctgcg cgcgcgcccc ggaccttggg ctaggccgcc gcttcgaggc 360

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gatgcatgcc ga 432

<210> 35487

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C6

<400> 35487

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cctcaccct agcccgcgcc gccgcctccc cctccactac cgccgcatcc gcttccctcc 180  
 gtggcctcgc caccaaggtc gagatcatcg agatcgatct cgccgaggaa gacgctggct 240  
 cctcgtccca cggtccccc tctcgtccc catcggtcga ggcggtcggg atccggcgcc 300  
 tggaggaagc catccacggc gtcatggtgc gccgcgcgc gcccgactgg ctccccctcg 360  
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<210> 35488  
 <211> 411  
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<223> Clone ID: LIB3069-003-Q1-K1-C7

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 ttgagagctg ttctccatct cctaggaggc gcaatattcc acctccatca cggaagcgtt 180  
 acagaagaaa gagcagtcgc agtgtcatta gctctccagt tactgcatct caaagttccc 240  
 accttgggtt ggaagagaat aagaatgcta ttgatacgca aaggctacaa gaagaaaata 300  
 aaaggcattt ccgaagaaag atactgctgt aattccgctt gttatatctg atgatgcaac 360  
 tggatgacct ttatctactt ttgatcagtt ttgataattc gtttttggat c 411

<210> 35489  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C8

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 gtgtcgactc cgacggactc gcagccaccg gtggagacgc cccaccggcg cactcctcca 180  
 acgttcatag tttaagggtc tgatttggat aattagtcac caacagaagt gataaaaaat 240



ggtggttctt gcagcatcaa tcgtttcaaa gtcgggaaaa gcacttgttt caagacagtt 300  
 tgttgacatg tctcgcataa gaattgaagg attacttgct gcgttcccga aactgggttg 360  
 aactgggaag cagcacactt atgtcgaaac tgaaaatgtg cgatatgttt atcaacctat 420  
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<210> 35490  
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<223> Clone ID: LIB3069-003-Q1-K1-C9

<400> 35490

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 accttcacg 189

<210> 35491  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D1

<400> 35491

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 acgtacctga tcagatccga ctaccaagcc taccaag 157

<210> 35492  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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ccccctcccc ctctctcccc tccccctcca tcgcgactcg tctcgtgcgt gactgcgtgc 180  
tcgtctctct ttttggtgcg ctcatcttgg tatctgtgcc agcgctcgct tctccccgtc 240  
cccgccctcc ttccttttct tgtctagccg aaggccgaag ccactgtgcg cgcgagcgcg 300  
acgcgagagg tagctgctgc tgtgcccggc gcgcgcgtgc gtgcgacgat gtcgtcggcg 360  
gtggaggccg tctnctgccc caaggctgac gtcctcgccg gcccgagacc gttggagccg 420  
gccaaaggaag cggcgccctgc cgcggagcac tgcgacac 458

<210> 35493  
<211> 370  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-003-Q1-K1-B6  
<400> 35493

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caaggccggg attgccttga acgaccactt catcaagctc gtctcgtggt acgacaacga 180  
gtggggctac agcaaccgcg tcgtcgacct gatccgccac atgttcaaga ccagtaggc 240  
tagtagagag atagatttct gcctccctat cgtgggtcgt cccaatggc ctttggtcgc 300  
agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc ctggacgctg 360  
gatccatgct 370

<210> 35494  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cttggcatgt tcttggactt ggatacaatc ctagcatcag catggaggag attagaaatg 180  
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tcaggcacct ttggacaaag tatgtggact atgatgactc atatattcgt caatgcaatt 300  
ttgcaccgnc atagaagggtt ttaattatcg acaacgaaga agaatcggta aacgtggcac 360  
atacatatgc ccgaaggcac gatttctgta gagataagga gtttctagag tacaactg 418

<210> 35495  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A1

<400> 35495

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ctgttccagg tgatcctgca gcgacggccc ttcattgtacg tgggtgcgcga cctgcgagag 180  
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gacagcccca cccggctgc 319

<210> 35496  
<211> 196  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A10

<400> 35496

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acggtggcac tggcgctgat ccggcggtgc aagtacctgg catcctccct gatgacgcct 180  
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<210> 35497  
<211> 417

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-003-Q1-K1-A11  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-003-Q1-K1-A12  
  
 <400> 35498  
  
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 cagcacagct ccaaccccat gtacctgctc gtgctcattt aacacaacaa caacgactgc 180  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-003-Q1-K1-A2  
  
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ctgttccagg tgatcctgca gcgactgcc ttcattgtacg tggcgcgca cctgcaggag 180  
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gcgagactca tccacgaggc gctcgtgaag cagggcccca tgttcgagag ccggcccgag 300  
gacagccaca cccgcctgct cttcagcgtc tgcaagtgca ccgtcaactc ggtgccctac 360  
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<210> 35500  
<211> 58  
<212> DNA  
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<223> Clone ID: LIB3069-003-Q1-K1-A4

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<210> 35501  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A6

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cactactatg ccttcacaaa tatccactac cttcataaaa cccactacat tt 172

<210> 35502  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A7

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gatgagtggc tggagggcac ttcgtttgtg cagagaagca aatccaagaa gaagcagacc 360  
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agcccttcac aagtgact 438

<210> 35503  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A8

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ttccacagga gttttacatc tgggtccctc tttcaccact tgattgtcta cggtagataa 180  
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cgccacagat acgagggtgaa tcctgacatg gtcccagaat ttgacaaagc aaggctttct 300  
ttcgttggca aggatgaaag tggcgaacgc atggaagtat atatatgatt gccaactatt 360  
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<210> 35504  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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aagaagctga agctgataaa acagaagagg aaggtgagat caaacagacc aaagaagaaa 180  
gagaggaaaa gagaatccgt gctcgaaggc gcatgctggg aaacattagg ttaatcggag 240

agttgttcaa aaagaaaatg ttgacagaaa ggattatgca tgagtgcatt aaaaaattgt 300  
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 caattggtga gatgattgat cgtgcaaagg caaaggagca catggatgca tnatttggtg 420  
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<223> Clone ID: LIB3069-003-Q1-K1-B1

<400> 35505

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 gccatctcca ccgtgcccc ctccctccaa ctccatggtc cgactccttc taaatcctct 180  
 acccacttct ctacccgtct ccctatccct tgccacctcc gcacgcaacg cctgcacctg 240  
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 tacgtaccgt ggtccgctgc cttcttcgta gccgaa 336

<210> 35506  
 <211> 457  
 <212> DNA  
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<223> Clone ID: LIB3069-003-Q1-K1-B10

<400> 35506

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 cccctcccc ctctctcccc tacccttcca tcgcgactcg tctcgtgcgt gactgcgtgc 180  
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gccaaaggaag cggcgacacgc cgcggagcac tgcgaca

457

<210> 35507

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B12

<400> 35507

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tcatgtaacg aacctacccc acgctcgcat atgaagaaca ctgcgctcac ctgcaacaac 180

caaccgtaca aactctgca actacaacgc tcattcatgt tcatcatact aatgatgtgc 240

atcaaacgac acgtacagta caggtactcc agcaacacca gctaccgaaa cgtgccccac 300

accgaagcac tcgtcaagcc ttcgacccca acctgcgagc actatgacat catcatattc 360

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<210> 35508

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B2

<400> 35508

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agaacctgaa cggagaa 77

<210> 35509

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H7

<400> 35509

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tcgacatcca acacattgag caatgcgatg accgaacatg ctttaaagga tgacctaattg 180  
 agccttatcc atgccatgct aggctaggct attgctgcgc caatagtact agtctaactg 240  
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<210> 35510  
 <211> 191  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-003-Q1-K1-B3  
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 catctacacc agcaatcact ctattcacct ataatgacct aatccatcta aatcctctaa 180  
 catacactca a 191

<210> 35511  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-003-Q1-K1-B4  
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 cccccctcgt ctccgccgtc cccactccaa gaagcctgcg cctgggggggc cagcagcagc 180  
 acccgccggc tctgaagctc acttcttctc aggaggcggc gatcgcgggc gcgatgaaca 240  
 tgggcaggcc gacggcgagg gtggccgtgg aggtgaacga ctaccaaccg tccggcccca 300  
 acaaccgtca cgaccaccc aagggcccct gaagagcttg ttgaacggcg ctcggttgga 360  
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 ctagtgct 428

<210> 35512  
 <211> 399  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B5

<400> 35512

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aaccatttct aatctcagca atctagtcta attcttgaat ctttaaactc aggaacatgc 180
cacataaact tctaaagtat catctgacaa ttatgcaagc atatcacacg aataaactcg 240
actattagat gcacatacca ccaattctgc atgatacaac actaatataa cagatactac 300
ataatcaaat taacttcaac gttaattgca tcatatgctc tcaatagccc taaacatttg 360
acaatctaatt atatcttact atgtacaatc atggcttaa 399

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<210> 35513

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G10

<400> 35513

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agcgatggag aacggcgatg taaatgagga tgagagaaat ggaaagaaga tcaggggtgca 180
aggaggcggc tcaagtgggc cgcatgccca agttgagggc tgcggagcag atctgactgc 240
agcaaaggat tatcacgcgc gggcacaggt ctgcgagatg catgctaagg ccaacaccgc 300
cgggggtcgga aacactgtcc agaggttctg cccacaatgc agtagatttc accttcttca 360
agaatttgat gaagggaagc gaagttgccg gcgacgctta gcaggccaca ataaacggag 420
gaggaaaaa 428

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<210> 35514

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-002-Q1-K1-G11

<400> 35514

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gctgttcccc aagatcttcc ccgagcagta caagagcacc gagaccgtcg agggcgacgg 180  
caagtcggcc ggcaccgtcc gctcctcaa gtacaccgag gcggtgccga tgctgacgtt 240  
cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt acagcgtggt 300  
ggacggcgag ctggcggact tctacaagaa cttcaagatc acgctgaagg tgactccggc 360  
caaggcggan ggcgagggcg gcgccgtcgt cagctgggca atggagttcg acaggtcaa 420  
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<210> 35515

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G12

<400> 35515

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<210> 35516

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G3

<400> 35516

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<210> 35517

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G5

<400> 35517

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ttgtcaagtg atacatacat catatttgag gctgctccta attcaggaat taaggatgatc 180  
aaccaaaagg aagctgctag cagcaaactt ttcaaacata aagagtttaa cctggaaaaa 240  
ttgggggatag gtgggttaag tgctgaattc actgacatat ttcgtagggc attcgcttca 300  
agagtctttc ctctcaagt tgtcagtaaa ttgggcatca aacatgtaaa aggtatactg 360  
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aacggaa 427

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<211> 357  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-002-Q1-K1-G6  
<400> 35518

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cgagaatcta cttaggatca aaggactttt ttatcagctg atcatcgctt tgactccaac 120  
tcaaataacg cgtgacgcc aagtgggagca aagttgggaa aatggatatt ggtgggtggtc 180  
cataggtact gaagcaattg aaggacaaaag cactaaagag agcgtggctg actgaagaaa 240  
cattgcaaga gcagattgag cagagaaaact gtgcaaggaa gaataaacag tttgagatat 300  
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<210> 35519  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tctcacggca ccacctgccg tcttcttctc cacagagcag caagcgaagg tgtaacctta 180  
gctntactac acgatctgca agagtaggca gccaaaatgg agtccaaatg ttgagcccct 240  
cggaaatccc acaaaggac tgggtcccct ctgacttcac cttcagtgcc gacacttcag 300  
cggaccaaat tgaagggtgt tggaatgaag atggaaaggg ggaaagcaac tgggatcact 360  
tctgggcacaa tcattcggaa aggatactgg acgggagcaa ttcaaacatt 410

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<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G8

<400> 35520

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gggctcgtgt ccgcgcgctc gccggcagcc agcgacttcg tccgcaagtc gtgccgcacg 180  
acgcagtacc cgtcgggtgtg cgagcagagc ctggcgctcg acggcgggtc gccgtcggcg 240  
cggagcccgc gggaactggc gcgcgccgcg ctggcggtga gcgcggaccg cgcgcg 296

<210> 35521  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G9

<400> 35521

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atgacagtgt tgtgatgcag acaaaatgaa aacattctat gaaggacatt cgtagtcttg 180  
ctgataacag taaggagttc cttgcataag aagaaagcca gataccaata catgaagtga 240  
tttgctacag gtattatcat aatgttacca atgttaaagt gaaacacaaa ccgaacgaat 300  
attaagaatg gatagaagat gtgtacgatg aggaattaga aaagatgatg gacacatttg 360  
aagatgata 369

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 agccattttc ccaggttgaa cagccacgag tggtcaggcc tcatgcaacg gttgctccat 180  
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<210> 35523  
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 <223> unsure at all n locations  
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 cgctacgacg gccgcgctgc ggacgcgggc tcttaccgcg accgncgcag cgagggggcg 240  
 ttcggaggcg ggtcgagggc gttctcggcg cccgaacaag gcggacgctc cgggggcggc 300  
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<210> 35524  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 35524

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ggcgctgct gctgctggcg gcgggggccc ggacggcgtc ggcggcggtg agctgcggcg 180

aggtgacgtc gtccgtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240

ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg gcggcggacc 300

ggcaggccac ctgcaactgc ctcaagagca tgacgggccc ggctcgccgg cggcgtcagc 360

atggccaacg ccgnaacat ccccggaag tgcggcgtct ccgtcggcgt gcccatcagc 420

cccaccgtcg actgcacca 439

<210> 35525

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H12

<400> 35525

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cagttggcac ccccgaaatcc cctgcgtaca gcacctcatc caaccatccc gttctgtagg 180

ttcaaagaag taaaaaacgg acgtcattcg tcagttgtgg aaatgaagca ctacgacttg 240

tgcacaatga atttgaatga agtggtgtcg agagtagaag agatgtcaca agaagaagca 300

tctgtttgcg gtcttatgga tatggatgag cctagtcctc ccagttgtga tgattcagtt 360

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<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H2

<400> 35526

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 tctccgtggt gcggagcgcg ctgaagccca tgatgtcggt ggtgcccttc tgcctcttcc 240  
 tgctcatgga catctactgg aagtacgaga cgcgccccac ctgcgacgac gagcacgcct 300  
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<210> 35527  
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<223> Clone ID: LIB3069-002-Q1-K1-H3

<400> 35527

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 aaggcattaa aaatgaaca agatttagag gataaaaggc aagaagttat aattgaaaat 360  
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 <211> 355  
 <212> DNA  
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<223> Clone ID: LIB3069-002-Q1-K1-H5

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 gttcacaagt ctgttctggc agcaattatt cactctcagt ggcaccaat tatgcatgag 240



ttcggcttat caccacaat ccgatggcca gacggagcgc gtaaactagt gcattgaaac 300  
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<210> 35529  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H6

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 aagaaaggac aattctgtgc gccttctgtt atgggtgaact ctacagagaa agtaaggctt 240  
 gctgggaatc caaatgtgat ggtctgtgag cgtgggtacca tgtttggcta caatgatcta 300  
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 gtaaca 366

<210> 35530  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G1

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 ggaacgaatc ccatgcgggc gatgagaaga cgtgcggcgg cagcgcaagc gagaagacaa 180  
 ggtgtcgatg agcagggatc gtgacgacga catccttccc gccgtcggca acctccacta 240  
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<210> 35531  
 <211> 419  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E12

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tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180  
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cccagtcccg cggcggccgt ggaagcggcg gcggcggcgg gtacgggtgtt ggccgtggag 360  
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<210> 35532

<211> 384

<212> DNA

<213> Zea mays

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<400> 35532

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catatcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180  
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<210> 35533

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E3

<400> 35533

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gcgaaagcac actgagggct aggttggaac aatcacagct tgtgaataat aatttgctaa 180  
gaaatcgaaa tgaataac 198

<210> 35534  
<211> 271  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-002-Q1-K1-E4  
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ggaaacgact ttcagggact gtttggttga gatcaggcag ctcacgaatc tcctgctcag 180  
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<210> 35535  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-002-Q1-K1-E5  
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 gggcgccggc aaggctcgtc agacgtgggg cgcgctgac gcttgccgtg ccatcgttgc 180  
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 gaatgagaag gcacaagaag ttggtgcaat ggctcttttc aatcttgagc tcaacaacaa 180  
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257

<210> 35539

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E9

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gatgaagctg ggagcaaaag gcctcggcct cctgctcctc cttgtcctgc ttgcgctttg 180  
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cagcaaccgg ccaagtccga agccaccggc cagctcgaca ccgagctctg gtgccggcgg 360  
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<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F1

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ccctccagaa ccggtgcatg aacagttgca tctgactcta agtcgttgct tcctttccct 180  
tctttcttag atctagctag ccaccgtgtc gactggcgga tgatacagta tctccacatg 240  
ctggttggtg agtgatgacc gtaccttgcc agatctgcag caaactatcc tatgctagct 300  
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<211> 158

<212> DNA  
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<223> Clone ID: LIB3069-002-Q1-K1-F10

<400> 35541

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 aataaatata aatgctatgg tatgattttg tgaattctga tcgctcaaaa aaaaaacaaa 120  
 taaaaaaaaat aataataaaa aaaataaaaa aaaaagaa 158

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 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F11

<400> 35542

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 actatccagg aatatgcgac cagtgaacaa gtcagagtta taactgcttc tattgaaaag 180  
 gatatatggg cttctggaag tgctaacgaa gaatatctca aagcacttaa tgctttgctt 240  
 agtaacttcc ctggtttgag ggctactgaa cctgccacat tgtgcattcc tcattcttga 300  
 acatccctta aaacctgttc tgaggcaact caagaagcag cgctagattc actatatctt 360  
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 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F12

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tcaagtggcc cgtaacctgg gcgcaatcaa gtgcgggaccc ctaatgtgta ttagcatctg 240  
 acgcgggggc tgtgccttaa tacagatgga agatgaacct accagtcact tacagaatag 300  
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<210> 35544

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F2

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 agcgcacagg ggagcactga cttctgcaag gctcatggag ggggcaagcg atgcgcttgg 180  
 agcaccggct gcgacaagtt cgctagggga aggagtggcc tatgcgcagc gcatacgacc 240  
 ctgatggctt ccaaggtagt gcaccatcct ggacatgcac gaagcatggt cgggccttgc 300  
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<210> 35545

<211> 431

<212> DNA

<213> Zea mays

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 gacggcggag agcataagga aggcacgtg gagaagatca aggacaagat caccggcgag 180  
 cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 240  
 aagaagcacg gcgagggcca cgaccacgac cacgacggcg gccacagtag cagcagcaac 300  
 gacagcgact gagatctggt gttgcagcac aggtgcaaca caagtatgct tgetggatgg 360  
 aagattcata ccagctgatg gctgatgaag tgtttcactg gtggcatgca tgcattatc 420  
 gtgctattat a 431

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 gacgggctg agcataaaga aagcatggag gataagatca gggacacgat caccgtcgag 180  
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 gctgctggtg gtgctcgga tgacggtgga gtggatctac acctacatgt tccgggtgag 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-002-Q1-K1-E11  
  
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caacaaaatc ggcacatcatct aagtgtctgca ttaggcatcc tagttcatct gttgtgtcct 180  
 agttctatgt gaaaccagag ttttgtagct atggctctca atcgttccat taccatgtgt 240  
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<210> 35549

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F7

<400> 35549

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 tgctcatcaa cggcaacttc gagacggcgc cgcggaagct gaacaagacc ctgatcgtgg 240  
 ggcgccactc gctgcccgtg gggacgggtg aaggccacgt ggagtacgtc tcgggcgggtc 300  
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<210> 35550

<211> 371

<212> DNA

<213> Zea mays

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<400> 35550

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 tccaggtcct catcagtcct atgcttgggg gaaccaccga ccagaaagtt gcggatgaga 180  
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 tattggattt agaccgatgg ctgatgaacc tacaagcttc ttatatgcct catatacata 180  
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 atccaccacc attagatgct catgtggttg cttctgttat gactgtatgg agcaagcttc 180  
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agacaattta cagatgtagc cccatcacat gccagtggg gagggtcgaa ttgatgaatc 180  
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 gtagagtaaa attgttaatc tgaatgttta tgccactttg atttgatttt aacgtagggg 300  
 aatcttctga ttttgcgggg agtaaaccac taaaggtttc attgtttgat tttccattat 360  
 atgtggcata gaaatatctt ctctttgatg aaacaaccaa gggagtctta ttttttttga 420  
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 cgcttgcata aaaggggagg tgaattctgg tgcgttgagg agacttggtg ctaggtctcc 180  
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 attgcgagcc ccaaatttgg aagacttggg gacaggtaat ctgacagatg agttccaagc 300  
 tgagtcctat tccaagctta ctagtgtctt ggagaaatgc aaaaagctga gaagtctgtc 360  
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 aatttcaagc gccggagaag agagtactga gaggcgacaa gaagatcact agacaccact 180  
 gttcgggtcta ggctatcttg agaaaggctt cttggtgggc taaatgacca aagactatat 240

gcaggactga gtgggtcattc gaacatcaac tgagctatcc agtagccagg ttgtaagtgt 300  
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 <223> Clone ID: LIB3069-002-Q1-K1-D1  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-002-Q1-K1-D10  
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ccatttatgt tgggatacgg g 441

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ctgagcgtca agtcaccgcg gactctgcaa tagccaacat cacttgcatg aactcgggtga 360  
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ac 422

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cacccagaaa gagaggacca aggtcattcg cgaactcagt ggactcattc ttacacgagg 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D3

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tcatgaagcg aaagagatct ttcaagagac aaaaagccaa gttggtcattg gaaagcttga 180

aatttcattg catgacaatg atgaagagga ggcagcattg cagagagtgt cccaagctga 240

acgtgcgcca aaataggctg tacacagagc tattcgactg cgcaacaagg tccaattctc 300

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<210> 35562

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D4

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ctccttcggg tagctttttt tgcattggcc ttgcaagtgc tttattgcta gagtagctgc 180

gcttgcatta ttaactagat aagtttagtga tggatctcgc gacgaccccg gcgcggctgc 240  
ggcccatgga gcctggactg gcaaggcgcc ttgtgcacgt ggtggtcggc gtgtgccaca 300  
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<210> 35563

<211> 447

<212> DNA

<213> Zea mays

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<211> 275

<212> DNA

<213> Zea mays

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aacgctgcag gacacgctgt gcaacacccg caccgactgc tacggcgacc tcctccgcga 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-002-Q1-K1-D8  
  
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 ggaagtaacc atttggcat tgaatttgga atttgatcat gtggaacatt ttagaatatt 180  
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 cgtgggtggag gtggagctcg tcttgctga cagccccttc gcgcccccca ccaaggagga 240  
 ggctcatcac gctgatgctg tcaactgctgc agcgcgtcgg aacggtagca ccagcagcag 300  
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tagggcaccc atatgcattt ctgcttgaca tactacggag gacctgattc aagcccttga 180  
tgttatcagt cgagttggcg accttggtggg cattaaatgc tttcctgtcc aaccaccaca 240  
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<210> 35568

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C4

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gcttcctcta ctgcctcgcg aggcctcggac tcatcaccga gcccgactac ccggccgacg 180  
ttctgtgctt cttcacagct tacctcgatc tcatgcgcac gctgcaggac acgtaccagc 240  
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tatttggggc tgcacagctg attgaccaca agtacatgaa gcccaagtcg attcacaacc 360  
cagatatctt ggaaaatttc ttcaaggggt acatggatct ggcaggcgtt gcatatgtga 420  
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<210> 35569

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E10

<400> 35569

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acacactaca cacactctaa tctatccaca cagccaacac agataccgac aatacaggag 120  
gatgaagatc tcagcaaaat gtc 143

<210> 35570

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B1

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cctgtcccag ccctagggct cgtagcggat cgtgagggat gattttgtgt ggtgtgtcgc 180

atgtgtgaaa tgcctttgtt gtcccaatat tcctaccgtg ttgggggtgg tcgcttgctc 240

gcgtccacgt ctttcacatg aattgggttac tgtggtagtt gtaactctgg atacgggtacc 300

aaaacataag tattgtctgtc aacaatctgc aacagccggg aaaacagtcg ataacctttg 360

caaataatac cttgtggcgt ggaaa 385

<210> 35571

<211> 418

<212> DNA

<213> Zea mays

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<400> 35571

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attcaaccga gagtagagga tgcagtactt ggccggcgga aagctgaaaa cgcaatggct 120

tggcgggcag tgtttacatc ggccgggttt gctccggtac cgctcagcaa cctcgcagaa 180

gcacaagctg actgcctgtt gaagcgcggtg cagggtccgag gattccatgt ggagaagtgt 240

ggaatgggtc tagcactcta ctggcagagc ggcgagctcg tgtctgtctc ggcatggcgg 300

tgctgatcat acggacccca tccatcaacc atcatgacac ctacaccaat ttgcaggcat 360

gtttaaccct ggtaatgtgc attttgtctt gcaatttcaa acatcgtgaa gaaaacta 418

<210> 35572

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B12

<400> 35572

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ctaataaagt aatttgcttt gttagtgtcg tttttgtgct atttcgcact gtaaattgtg 180  
tgctacccta tctgggcttg tacagaccac ggaaatacat agtgcgtcac gtcagctatt 240  
tggttgccctg tgctttgcct ggtagctagg aattactatt gatcgccaga tgctccaggt 300  
gcaaattttt ccgtggactg gttcacttat ttgattcaac tatgtcagaa tggtagatgg 360  
tgcgaaacttt agcttagata gtgagttgaa gttgcagcat g 401

<210> 35573

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B2

<400> 35573

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ctcgctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggtt cggttcgtc 240  
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg gaaggagctg 300  
gacggccgta acatcacgt caacgaggcc caatcccg 338

<210> 35574

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B3

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ccaaacgcaa gttcagaact ttggagaacc tttttttatg gttattcgtg aggatgagac 180  
cctatcttct atcaaagagc gtatacagag aaagcttaag attccagatg aggatttctc 240

aaagtggaag tttgcataca tttcacttgg tcgtccagac tatTTTgaag attcagatac 300  
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<210> 35575  
 <211> 207  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-002-Q1-K1-B4  
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 tacatggctg cggttagcta cggatagaca ggcaaaaccg ctttcagtcg aaactacatc 180  
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<210> 35576  
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 <223> Clone ID: LIB3069-002-Q1-K1-B5  
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 aagattatta acatataagc ttat 144

<210> 35577  
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 <213> Zea mays  
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tggatgggtg tggttagctt tggataaaga ggcaaaaaag ctttcagttg aaactacagc 180  
 taatcaggat cctctggtga ctaaagggtgc aagcttggtt ccgctgttgg ggattgatgt 240  
 ctgggagcat gcgtactacc tgcagtacaa gaatgttagg ccggattacc tgaacaacat 300  
 ctggaagggtg atgaactgga aatatgctgg agagggtgtac gaaaatgttc ttgcttgaat 360  
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<210> 35578

<211> 362

<212> DNA

<213> Zea mays

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 aaccatggtg ggctacatat ggaacggacg gtggaggcga atgtggaata ccttatagtg 180  
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 ggaatcttta ttactccttt gactcaggcg tgggtgcattt cgtctacatg tcgacctgaa 300  
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<210> 35579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B9

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 tggaagtatg cttagaatac ttctacaaag tcctaggatt ttgcagattt tgtttgagca 180  
 gctaactaaa ggctcctaag tgatgaagga aacatagctg agcagcaaatt gaaacacaac 240  
 tttccttttt tggagcagaa taccaattct tcaactgagt ttgccttggt ttttttagctg 300

gacggtgatg agtttctggg ctaaataaaa cctacaaaga tggctcttct ctggtctacg 360  
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<210> 35580  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C1

<400> 35580

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gtaaatattg ggtatggccc gatggctgtt ggccccagat ggtagccta tgccacaaat 180  
actcctttat tgtcaaacac aggcctgcta agtccacaga acctcacacc ttcaccaggt 240  
gtgagcccat ctacttctcc tagcagtggc agtttagttg ctagatatgc aatggagtcc 300  
agcaagcaat tagcttctgg tattattgac atgggatata aaacattttc aaagtaccgc 360  
caggaacttc taccagatgg ttctaacttc 390

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<223> unsure at all n locations  
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ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcggcg cgtcgccctc 180  
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gcaggcccct gcaactgcct caagaagcat gacggcccgg ttcggcgccg gcgtcagcat 300  
ggccaacgcc gccaacatcc ccggcaggtg cggggtctcc gtcggcgtgc ccattagccc 360  
aaccgtggac tgcaccaaga tcaactgatc gatggaacca tagtggaggt agctcgctcg 420  
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 gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240  
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 <223> unsure at all n locations  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C2

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ccatagcgcc aaatagtcac ccaatgaata ttctatctga ctctttgtat acctctctct 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A9

<400> 35585

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ccaccccccg aggcgtgagg cggagagtgt ggcccatggt tgtccccac gctgctcgag 180

gcgtgttcc ccaagtggat gagctgttcc tcgaagactt ccaggccccg cccacgagc 240

tcttccagga gtttgactac cagccattg ctgcagcgag cctggcccaa gtgcaccgtg 300

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<400> 35586

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agacattaca gatgagccat cacatgccat ggggagggtcg aatgagaatc tgtaactgat 180



aaacttatta aaaatagtaa gtatatagta aaaagttatt gtagagaaaa tgtaatcgaa 240  
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 gtttcggggt ggcgcaagtc ctgctggacg cgtactacgc gctggggctg tggtagcgcg 360  
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<210> 35588  
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 tgcccaagcg aaagactgac agagcacatg ttttagacaa ggctaagcat ctttcaaggc 360

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402

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<211> 400

<212> DNA

<213> Zea mays

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ttttcttttt ggaacagccg ttaagaagac tccttaattt gagatccatg tctctgctgc 240  
ccggacctgt ttgtcccaa ataggggtgt gttatagtga ttcgtacttg atgctttgag 300  
cttcatggac tcttgctggt caatgtttat cccattgta cgtctggttg ttctgctgct 360  
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<210> 35590

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H6

<400> 35590

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gaaggatgta tttgtaccag aacagttctt tattagatgt atgatgatga ccttaggttt 360  
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<210> 35591

<211> 185

<212> DNA  
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 accagaacac gggcatctcc atccagaggt gcaaggtggc ggcggcggcc gacctcgccg 360  
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cactctgaag ctctgaaatc tttgaccatg caagttctca acagtatggc agcattttatt 240  
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<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A1

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<210> 35595  
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<212> DNA  
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<223> Clone ID: LIB3069-002-Q1-K1-A10

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tgcgctcgcg gacgcgcgac ctgttcgcgc gcccttccg caagaagggc tacatccgc 180  
tcaccaccta cctccgcacc tacaagatcg gcgactacgt cgacgtcaag gtgaacggcg 240  
ccgtccacaa ggggatgccg cacaagttct accacggccg caccggtcgc gtctggaacg 300  
tcaccaagcg cgccatcggc gtcgagataa acaagcaggt gaatggtcgc atcatcagga 360  
agcgtatcca tgtccgcgtg gagcatgtgc 390

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 <223> unsure at all n locations  
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 aaagagttca ggaagctatc gcaggctctt ttatttggca ttgcctccat ctgtctaccc 180  
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 cagagtcatt gttgagaagc cctttggaaa ggacttggat tccgctgaag aattaagtgc 300  
 ccaacttggg gagctattcg aggaacacca actatacaga atagaccatt acctgngaaa 360  
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 ganaccgca catattgata ata 443

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 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-002-Q1-K1-A12  
  
 <400> 35597

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 gtctgagctt tcaggcgcgt tctctattc tctttcattt gccgttgtag tgatttcgtt 180  
 accctacaaa gtacctaatg aatctacaca ttttgctgtt atctatattt tcaccttaac 240  
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<210> 35598  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A3

<400> 35598

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ctgtaaaacc aagtcaggct gcaccttcag ctctctgggaa tcagttgggtc accccgaccc 180

cacgaagctt cacctacaca cgcacggagc caaaacaaaa tgacgggtgcg atggcttgac 240

tgctcagctg cagcatgccg cagctcctga tgaatctcgc agaaagagtt cgtgatactg 300

ttacgtgggtt cattcagctg cttttggtaa atatttaagt agctgcagat gttaagttgg 360

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<211> 142

<212> DNA

<213> Zea mays

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<400> 35599

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ggaagggcgg caagggcctg agcaagggca gcgcgaagcg tgaccggaag gtgctgcgcg 120

acaacatcca ggggatcacg aa 142

<210> 35600

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A5

<400> 35600

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ggagaacgca ttgcgtgctt gttgtaaagg aataaaaatt gggaaaattc taattcatcg 120

tgttgagac aatggacaac agcttggtta tcacaaactg cccatggata ttgctgaacg 180

acatgttcta cttttgatc cggtgcttgg tacaggcaac tcagtagccc aagcaattga 240

ccttcttata agaaaaggtg ttcttgagga tcggatcatt tttctcaatc tcatctcggc 300  
 tcctgaaggg attcagtgtg tctgcgagcg atttccttcg ctgaagattg ttacatctga 360  
 aatcgattat ggtc 374

<210> 35601  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A6

<400> 35601

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 gctctctgaa aaaaaaatca gttgcgtaat ctgtccaatg ttgcatttga gctattgogc 180  
 tagttaatcc ttttattttc ggtatgactt gcagtgccctc tagagatgga gattctatgc 240  
 taaggggttta ggagctgcat tgggtggatgg tacattgtgc tttctgcgcc gtgcttgctg 300  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A7

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 tgacagttgt catagtagtg ctgctctact tgatcatttc tgctttctgg ggaggccttt 180  
 gcttgtcatc atgcagatca tgagttacac accagatggc tttggccctt ccttaaaatg 240  
 ga 242

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A8

<400> 35603

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caagcaaaca caattggaat ccatggccag cgaaaaggct gcgttagagt tccaactgga 180  
gaaatcattg aaacaatttc atgaagtgc gattgaggca gaaaggagta aagctactcg 240  
cagatcagca tcgtcgtggg aagaagatgc tgatatcaag gcattagagc ctgttcctct 300  
acatcatcga cacatggcaa cagcaaata gcagttacaa aaggctgcga agctttttaga 360  
cacaggagct gtgcgctcaa caggattt 388

<210> 35604

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H1

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gctgaactac gagctcaaca accgaagaaa gatcgtgaga tccactgggc gccgactcca 120  
ggctatgatc atatcaagcg cccgcacccc agcaaggctg actgctgccg tcgagcagta 180  
cctcatggaa cacggccttc agtacacgca ggcgcaacca ggcctcttcc gcgtcctgct 240  
ctagtgatgg agccggccta gctgttgtca catagacgag aaagaagacg taaaaagttg 300  
tacttgcgta tatggcagag atggctagca ggatagaagc gttaagatag ctcatgcatt 360  
cacatatcag gcttttagcat atgtatacat cttacaagtt gcggagtt 408

<210> 35605

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F5

<400> 35605

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atatgaatag atttactgta cttataaggg ctggtgtgac tcagccgttt gctcctt 117

<210> 35606

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F6

<400> 35606

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gttggaaaaa tccaagtgtac tgccttttcag tcagaggatg aactacagga tgaatctcat 120

gtacatgact gtatggctga ctacagatta agtgaggcct tattgtctaa ggttacctgt 180

gatgtagtaa ccgaggagct gaatgtgaac agatgctctg aatatctgta cttcacatgt 240

agtattgttt taagatcgtt atatgagagt ttgagcg 277

<210> 35607

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F7

<400> 35607

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gcgtgggctt caacatcatc tccggcacgt ccatgtcgtg cccgcacgtg agcgggctgg 180

cggcgctgct ccggagcgcg caccgggagt ggagccccgc cgccgtgcgc tcggcgctca 240

tgaccacggc ctacgccagc tactccggcg ggtcgtcgct gctggacgcy gcgacgggcy 300

ggatggccac gccgttcgac tacggcgcg ggacgtgga ccccgcgcg gcgctggacc 360

cggtgctcgt ctacgatctg ggcacccgcy actacgtgga 400

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<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F8

<400> 35608

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aacgaaaatc tccaggctcc agctgctagc tgtcataccc tacaagtgat ggcaccacac 180

tctacactag aattgttacc tagtgctgcg aacagcagca ggtcaaggcg tctgtagact 240

ctacatgtaa ttctcgaaag aaccaagact tctgcattta atgtaggac agctgtgctg 300

tgctctt 307

<210> 35609

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F9

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tcatcaattc tgcacatcc atcaccacaga gtttttcac ggagttactt gatggcaatc 180

gcaagctact ggcacttggt acttctggga atgccatggc acataatacc agtgctttgc 240

agccattaa tggtcctatg ggtggatccc aggagggtga ggctccgtta gatcctatga 300

aagagctggg cagactgata tctgaacgca agtttgacga agcatttaca atggctcttc 360

aaaggagtga tgtttccata gtatcgtggc 390

<210> 35610

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G1

<400> 35610

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tgtgtcgccg tcgtagaagc agccgcgcgc tgtcgtcgtc gtctcgtccg cgacgcgacc 120

actgcggcgg ctgctgctgc ctcttatgct ggccacgcca ccgacgcttt tgtgatacca 180

tactaagcgc cgtggcgggc acgttggaga tgtcgtcaact gggtagggcaa cagcagcacg 240  
gccgctgaga ccaggccagg gcgcgtactc acgtggactc gccagctgca cggtcgcttc 300  
gtgctcgccg tggcccagct cggcggcgcg gacaaggcga cgcccaagtc cgcgatgagg 360  
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<210> 35611  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-001-Q1-K1-G10

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ccngnggnca gggtaggggn tncggatatg gccatggaag tggtagaagga tacggttctg 240  
ggtctggctt tggtaggtgt gctgctggcg gcggcggtgg aca 283

<210> 35612  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G11

<400> 35612

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gcgtctccgt acgccctcct agcggcgctg cagcattacc tgccgtcgaa cgaggtggcg 180  
gcgtacgacg aagacgacga ggaggcggcc ctggcgggcg cgaccgccgc cgtcgacgcg 240  
tacgcctgcg acgagttccg gatgtacgag ttcaagggtgc ggcgggtgctc gcgcggggcg 300  
aaccacgact ggacggcctg cccctacgcg caccgggggg agaaggcccg gcggcgcgac 360  
cccaggcggt accactactc cggcgccgcg tgcccgact tccgcaaggg cgggtgcaag 420  
cgcggcgacg cgtgc 435

<210> 35613  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-001-Q1-K1-G12

<400> 35613

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cctcgccgag ctcatcctca ccttcctctt cgtcttcgcc ggcgttggct ccgccatggc 180
aacaggggaag ctggccggcg gcggtggga cacggtagtg ggccctgacgg cgggtggcgct 240
ggcgcacacg ctgggggtgg ccgtaatggt gtcagcggcg ctgcacgtt 289
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<210> 35614  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G2

<400> 35614

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gcacagacta accgatgact gatgctgtcg tagttagcag tgtgaaaagg tactcaaatt 180
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acaaacgtgg ataggtttct ggtaggtgct gaaaccgtga ccgtgtggtc ttgtccatta 300
tcatatgttt tgataccaca aaccgttggt tgtgaggcaa atttgatttt ttttgcattt 360
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<210> 35615  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G3

<400> 35615

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gtatgcgtat tagatctgat aaatcaactc caaacgacat caacacatac cggaaggatga 180

tgaggagtat tacagataac attaccgagg agaagcttct cgaatagact gatgtgataa 240

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agccagcggc tggcttatgt agctgtgt 388

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<211> 412

<212> DNA

<213> Zea mays

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<400> 35616

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tcccgacaag gggaatgaag ctccaaacat gaaagctgct gatattgttt tcctcctcga 180

tgagaagccc catgatgttt tctctcgga tgggaatgat cttgtggtga ctgagaaaat 240

ctcgctggtg gaagcgtga ttggatatac tgcacgtgtc actacgcttg atgggcggag 300

cctatcattg cccatcaact cgataatcca tccgagctac gaagaggtag ttcttagaga 360

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<210> 35617

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G5

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catccgctgc tctacgectg cgtcttccgc gacacccacc tcgtcgccga gctcgaccac 180  
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<210> 35618  
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 <212> DNA  
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<223> Clone ID: LIB3069-001-Q1-K1-G6

<400> 35618

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 actggagggtg ttcatgcctt gcatgatttg tacatcttac catgtagtat gaagcgatcg 180  
 aatcgtaggt gacattacaa acgcagagag gcatacttat cagatagtga gttacaaaag 240  
 tgtttttggc atgaccaagg atgcattcta ccgtctagcc aaattggaag caagaactac 300  
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 aatg 364

<210> 35619  
 <211> 402  
 <212> DNA  
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<223> Clone ID: LIB3069-001-Q1-K1-G7

<400> 35619

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 gcgctcacct tcgaggacga gagcctcacc ctctccgact ccagggggat cctccgccac 240  
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cgggcggtcca tcgagcagtg gctgcagacg gaggcgcaga gcttcgacgc gccagcgcc 360  
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<210> 35620  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-001-Q1-K1-G8

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ggccactctt tgggtgaattt acttgtcaaa atgctgtttt ggctgagcgt ttcattgaag 240  
cagatatatg ctgaaattgg aaaaggctga tgtatacagg ttaccgtatc tatccagtgg 300  
cgctcctgga ttcgctttgc ttgaagctgn caggaagatc aatttcaaga tgtactaaat 360  
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<210> 35621  
<211> 383  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-001-Q1-K1-G9

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ctggttgcta cgctgccaat gttatcatcc agcgcccagg ctggacctaa ccaaagaagc 180  
ctgacttcaa ctagtgaat actcaggcac cgaggcacgt tacgagcggg tcggcgtgta 240  
cactcccttg tatcctttcc ggtccggcca attttttgtc gccgtgatat ttgttcagca 300  
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gcttcggcga tgcttgcaat gcg 383

<210> 35622  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F4

<400> 35622

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ctcctccctc ttcgttccct ccgatccgc ccctataaat ccagtcgcct cagccgccac 180  
agcggggccgc aagcacgcat ccacacagct cactgctgct cccgtcttcc cgtgtcctgt 240  
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ccggagtccc gcgatggcga agctgtacgt gcaggcgctt ccgcccgcgg atctgaacaa 360  
gaacaccgag tggttcatgt atccgggctg ctggacgacc tacatcctca ttg 413

<210> 35623  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D9

<400> 35623

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tgtcagaatg tgctcagaaa ggcattgcag tgagaccacg gaaagggtgac gccctccttt 180  
tcttcaacct taaccagac ggcaccaccg actcgggtgag cctccatggg ggttgcccgg 240  
tcataaaaagg cgagaaatgg tcggctacga agtggatccg tgtggcctcg ttcgataagg 300  
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taggggagtg cataaagaac ccagagta 388

<210> 35624  
<211> 237  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3069-001-Q1-K1-E1

<400> 35624

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agtaaaaaaaaa aaaaaaaaaa 180  
aaagaagaaa aataaagaaa gaaaaaaaaat aaaatacaca gtgcatgcaa aaacaaa 237

<210> 35625

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E10

<400> 35625

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gcttgactca tcacttcttg atgagctgct agcaaacatt tctactcttt catcagttta 180  
tcataagccc ccagaatcat ttgtcagccg tgttaaggct gctcctaggg ccgatgatga 240  
agagtttgct gatacagctg aaacagggtg ctcggagtcc ccateccagg gtgttgatgg 300  
ggcatcacct tcacttagtg ctggtacttc ttctaagtga cccgtgaagc agctggcggt 360  
tgcatcccca cctgcaatgc cagacctttt aggtgatttg atgggtatag ataatgctat 420  
tgttcctggt gatgaac 437

<210> 35626

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E11

<400> 35626

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tgcgtagagg ccttcaggca ttgtcgtccc gtgttgtcta ttgatggtac ttttctgctt 120  
gggaagtata agggcacatt gttggttgcc atatcatgtg acgcggacaa cacattggtt 180

ccttttggcat ttgcttttggg ggagaggggag aacagagaga gttgggcttg gttcttgcca 240  
 cttgttcgga tccatgtcgt gggccctggg cgcgaggttg gtgtcatatc tgacagacat 300  
 cagggtatcc ttaatgcagt gcaagagcag attcctggct acgcacccat gcaccacaga 360  
 tgggtgcactc gacatctagc agaaaatctt cttcgaaagg atcgtagcaa ggctaatttc 420  
 cccctttttg 430

<210> 35627  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-001-Q1-K1-E12

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 tcgttttctg ctagctttct tctactctac cactgtaagt tttcagctcg atcgggccaa 180  
 aatttgggtg gtattgggta cgctgtcctt catcagcctt cactttgcat gggttgacct 240  
 tagagaagac gtgttcaaga ttttgttgc gcaaaagcat gggaatagca tacatagctn 300  
 tgagaggagt ctccagtgc tttgggtgtg taacatccaa agacactcct ggtatacata 360  
 tatgagtcct ggtttttact atacaactgt tctgaaat 398

<210> 35628  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E3

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 ggagggcatt cgtcgatgga ccacctggc gccaaaggac atggagacgg ggaagaaagc 180  
 cagtacttct cggacgcgga ggaccggtcg tggccgtcgc actcgcgcca cgactccacc 240  
 gtctacgagg actacgtctc gctgtgcgtg tccgcccgcg cgagctccgt cgacgccgac 300

gccgatgccg acggcgagggc cgtcagacaa cactgcagga agtcgtcgtg cgtgtcagag 360  
 ggctcgttgg acgacgttga cctggaggcc ggactgagcg ag 402

<210> 35629  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E4

<400> 35629

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 cccattgtg tcaactgtaac tagcaattga gctcttaaaa ttttggttga ggtgcagtag 180  
 caaggcacac tactacgata tacaacaag atgatcagtt gatgcccggt gtcttcagga 240  
 tcttttcagg ttgcgcaggt cccattttgc ttctcccccc gggcttgcag ttgcgtttga 300  
 gtgcacctct gaggttttgg ttggccctcg cgctgcgtac ttaagctctc cgccccgtcc 360  
 acggcgttgc atctctcatg gcactcgggt tctcctgata gctgctgg 408

<210> 35630  
 <211> 154  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E5

<400> 35630

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 cagcccaatt ctttgaggga ataaagtctc tgggtgtattg agaggtgtct ttctgaaata 120  
 gggagcatat cagatgcaca cgtgtctttc gtgt 154

<210> 35631  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E6

<400> 35631

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aggatgccct caaggaggga atgggaggtg gtggagggat gcacgatccc ttgacatat 120  
tccagtcatt ctttggtggt ggaagccctt ttggaggtgg tggcagcagt aggggcagaa 180  
ggcagcgaag gggagaggat gtggttcata ctctgaaggt ttctctggag gatttgtaca 240  
atggcacatc gaagaagctc tctctgtccc gcagtgttct ctgctccaag tgcagtgtta 300  
agggtacaaa gtctgaacct atatagaggt gcgctggttg ccaaggttct ggctttaagg 360  
tccaaatccg gcatttggcg cctggaatga tccatcatat gc 402

<210> 35632  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E8

<400> 35632

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ccatcacctg ggcagccttt gcaacctgga atgtcatcat ctggtgttgg tgttatcggc 180  
cgaagaagtg tatctgatct tgggtgaatc ggagataacc ttactggaac ttctgctagt 240  
tctggtcatg atcagcttta taacctgcaa atgctagaag ctgcattcca caagcttcca 300  
caaccaaagg actctgagcg tgctaaaact tacattccgc ggcaccctgc agttaccct 360  
gctagctatc cccaagttca gccatc 386

<210> 35633  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E9

<400> 35633

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agcaacatgt taacagatgc tttgaaaaac tgtaccgtaa ctgtcggatt cttttaagta 180

cattatagta aagacttgag cgttagctca aaatga

216

<210> 35634  
<211> 327  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-001-Q1-K1-F10

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cgggtttcat cccgccgtcc ggggtggcgg cggcggcggc ggcggcggcc aagaagaagc 180  
agcagcagcg gtgccgtgtg actgcggacc tgctatggcc gggggccggc agtaaggag 240  
ctccccagga caaggaggag gacttcgagg ccgacttccg cgagttcgag cgcggcctcg 300  
gcgaggatga cgtggacagc gccggcg 327

<210> 35635  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F11

<400> 35635

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aacatgtgaa atctgtggtg gagccggtgt gcctcctgga accacacctg aaacatgtct 180  
atcttgcagg ggttcaggat ttatattcat gcaaaccggg cccttcaaga tgcaatcaaa 240  
cttgacaaaa tgtggtggtt ctgggaaaac tgtgaaggaa ttctgcaagg catgcagagg 300  
aaacaaagtt gtgcctggaa ggaaatcagt ccgccttgac atactgcctg gtttggataa 360  
tgaggatacc ataaaggtgg ttcgatcagg tggagaagac ccagatggcc gtccagggtga 420  
tctttatgtg 430

<210> 35636

<211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-001-Q1-K1-F12  
  
 <400> 35636  
  
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 agacgccggc gacgaggcga agaagaagga ggcggcgctt gcatcaagca ggctcctcga 120  
 cccggcggtc aagccctcca aactatccca ggaccggctc gacaagttta aggaattaca 180  
 caagaaacgg ttacagataa ctgaaaagcc gaagtataaa agaaaactga aaggaaccgc 240  
 tgggagaagt accaaagtaa ccagtgatta caaatcact aatacggatg catctgctga 300  
 tagttctcca agagatgtac atcatacgtc atcaattaca ggaatccaaa gggatcctgc 360  
 atcaggcctg tcctcgagga acaaaagaaa gctacattgg gggctggata ttaaaggacg 420  
 atggngaagg aaggcaaa 438

<210> 35637  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-F2  
  
 <400> 35637  
  
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 cgagcctgtc gccgaggcag aggctgctgc tcccaggag ctcgccgcgg acgagccgga 180  
 ggctcctgct cctgctcctg ctggtcccca ggagccggcc gacgaggcgg aagctgctgc 240  
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<210> 35638  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-F3  
  
 <400> 35638

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ctgaacccgc tgaagccgat ccctgtcatc gtcattgtgt cagaagacga gccccagagg 180  
atcagccgat gcctgaacgc ctgcgccgag gacttcatcg tgaagcccct gcagagcaag 240  
gacgtgcagc gcctacggaa ctgcttcaca gtccggaggc ccagcaacaa tggcggcgcc 300  
acgttgccgt gcgaggagaa cgccgtggcc aagtggagta acaacaagct ggcgccctcc 360  
gccggcgccct gcgcggcgcc cagcgcca 388

<210> 35639  
<211> 373  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-001-Q1-K1-D8  
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ccctcaagag ggtgggcctg gaggactgct tctaggggat catctgcttc tagaccctgt 120  
acccgccgtg ccggtcgcat ggagaccagg atcccgagat ctctgacatc gccggcacac 180  
ttcgtccgct ccggcacctg cgactagctg accaagacct tccgtcctgt gcaagcctaa 240  
cgtggacgcc atggatgagg cgctcatgat cgccaacgtc aaccgcaca atgcgatctt 300  
cttcgacgac agcgttacgc aacatccatg ccggtaagca gattggcctt cacacggtgc 360  
tggtgggcaa atc 373

<210> 35640  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-001-Q1-K1-C12  
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caggaggctg gggccgcgag ggtggccact ctcaaccgcc cgcgccagct caacggcatc 120  
tccgacagag tggtgtacct cctcgcacag ttcttgagaa aatgggagaa ggatgagaac 180

gccaaattcg tcatctttaa ggggtgctggg cgtgcatttt ctgctggtgg ggacctaaag 240  
atgttttatg aagggaaatc aaatgattcc tgcctcgagg ttgtgtatag aatgtattgg 300  
ctttgctacc acattcacac gtacaagaaa accatggttg ctcttggtta tgggcttgtc 360  
atgggtggtg gcgctgcaat ggttgcgcca ctaaagtttg cagttgtcac agagaaaaca 420  
atctttgcta ctctg 436

<210> 35641  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C3

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ccagcaccgc tggcttttga cctgcatctg gttaccgggt cgggcttgga ttcaaagcc 180  
cgggatgtgt gtatagaaat aagacctgta tcccgtgtt gatgtagaac atgtggacat 240  
ggtgttgctt ctgaagacga ttttggctca acaatgcaga tttcatgtt gtc 293

<210> 35642  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C4

<400> 35642  
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atgctcaa at gacttgagtc atgacgtgag acctgaggtc atagattgtg tctgcgatat 120  
tggaggcgac atactctatg acgttcgcta tactactgca gattgcatag ttcaatgcaa 180  
cttacattac gacttgtctc attaacttgc gc 212

<210> 35643  
<211> 401  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3069-001-Q1-K1-C5

<400> 35643

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acgagggtgca gtctgtgggt aagccactca acaaggaggt gaagcgcatg gagaagagga 180  
agaacccgct cacgaacatg gctgctgtgc tcaagctcaa cccctacctc ggcactgccc 240  
ggaagatggc cacccttgct gaggctgccc gagtcaaggc ccggaaggag aagcttgatt 300  
ccaagaggac caagcttacc tcggagactg ccaaggtcaa ggctgccggc aaggcgtggg 360  
acaagaccat ggtctcggac agtgactaca ccgagtttga g 401

<210> 35644

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C6

<400> 35644

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agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg 180  
cgagggtgacg tcgtcgggtg cggcgtgcct cgggtacgcg atgggcagcg cggcgctcgcc 240  
ctccgggggg tgctgcaacg ggg 263

<210> 35645

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C7

<400> 35645

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ttctatcgga gggctttcta tggctactcc tactacacac cattcttgcc aggattataa 120  
ctgtca 126

<210> 35646  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C8

<400> 35646

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tgcagccggc cttcgaccac ccgaggctgc gaggccagag gccactggcg ggcccgcgcg 180  
cggcgaggcc caaggggaac cgctccgcg acccgataag gaatgacacc gcggaggccg 240  
tcggcgctcca gcagctgtgg gggcgctccg gggagtcgtg cccggaaggg tccgtgccca 300  
tcaggcgtgt cacggaatcg gacgttgctc cggccagctt cgt 343

<210> 35647  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C9

<400> 35647

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gtcggtcggg ggctctcgga tctcgccgct gcctccccgt ttcttcgctg ggatctcgct 180  
cgcttcgcgc catggccgcc gtcgcgacgc caccggcccc cgcgcccgcc gcgccggcac 240  
cggcaccggc accggctgct gctccggctc ccgtcacctg cgcctctgcc gcggacaaaa 300  
ccacggatct gctgcagaag ttgtcgctgg attcgcagcc caaggcggcg ggtgcgacag 360

<210> 35648  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D1

<400> 35648

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 tggaaattca agcccaacgg ttcatgtcga gctaacaat tccgatgaga aactggccaa 180  
 tcttgcagaa gacaagaatc ggcgactttc agatgcaagc cagttaagaa caggttcaaa 240  
 cccaatgggt gatgttgagc taacaaatct cgatgagaaa ctggccaatc ttgcagaagg 300  
 caagaatcag cgactttcag atgcaagcca gttaagaaca gggtcaaacc caatgggtga 360  
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<210> 35649  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-001-Q1-K1-D10  
  
 <400> 35649

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 gacgcgagag gtagctgctg ctgtgcccgg cgcgcgcgtg cgtgcgacga tgtcgtcggc 180  
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 ggccaaggaa gcggcgccgn ccgaggagca ctgcgacacg gcgcccacg gcaagtgcgc 300  
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<210> 35650  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-D11  
  
 <400> 35650

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 atgtgcttgg cgtattgcat gcagtgaata atttatcttc gcgttggggtt ggtgacaatg 240  
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<210> 35651  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D2

<400> 35651

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 tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180  
 agacgcatca aagttttcag ctctgctgt ggtggaaaca taattgggtt aaacgatcac 240  
 tgccttcaaa aacttgtgaa ttaagaacat gtgatttcac cctcagtcac gaaaagaggg 300  
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<210> 35652  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D3

<400> 35652

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 tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180  
 agacgcatca aagttttcag ctctgctgt ggtggaaaat aattggttta aacgatcact 240  
 gccttcaaaa acttggaaat taagaactgt tgattccacc cttagtcatg aagagagggga 300  
 gcgtaggagg aggagagctg ctgggagatc agcttttgtc caacatatcc ttgtcaccac 360

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404

<210> 35653  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D4

<400> 35653

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gctccccggc ctccgtgcc accgcctcct cgctcggggg tcactccctc cactcgggtc 180  
cgccctctat cgcaggcccc tggagcgaac ctcggtcttc cgctactcct cctccaagc 240  
tcaagctggg gacagtattg gggaggaggc cctgcgcatt ttccttgagg agaggcaact 300  
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tggtgcggct g 371

<210> 35654  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D6

<400> 35654

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ggcgggtgagg tgtattgaac tgccttgat tattgaggcc tagtgtacgt tgtgcagttg 180  
tttgtccagc ctatgggtggg ttgtctacat ctccatgaaa tgagatggag agctgatgga 240  
taaaggataa tggttggttg acatatgggc ataattacat aagtttgatt aggtcacag 300  
agtcacagtg atttgaacta ccgtgacttg attgacatat cttcgggtat gtgattccca 360  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C11

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agagtcaaca gtcagctgcc aggagatctc caagatgccc agccttgctg tcaccatcgc 180

aaacaagacc ttcaccctaa cacccgagca gtacattgtg aagctggagc aaggaggcca 240

aaccgtctgc atcagtgggt tcatggcgta tgacctgcca acggcgcggtg gtcctctctg 300

gattcttggg gacgtcttca tgggagctta ccacacgggtg ttcgacttcg gcaacgacag 360

gattggcttc gcggaatctg catgagtgtg gagaccactc tgctcttcat gcataaagat 420

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<210> 35656

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D7

<400> 35656

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acccgccgtg cccgccgcag ggagaccagg agcccgagat cttcgacatc gccggccact 180

tcgcccgtc cggcaccgcc gacgagctgc ccaagacccc cgtcctgtgc aagcctaacg 240

tggacgccat ggaggaggcg ctcaggatcg ccaacgtcaa cccgcacaag gcgatcttct 300

tcgacgacag cgtacgcaac atccaggccg ggaagcagat tggcctccac acggtgctgg 360

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<210> 35657

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A6

<400> 35657

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tactggacgg gttgacatga aacaaattga gaagaccata caatatctga ttggttcagg 120

aatggatcct ggaactgaga acaacccta cttgggtttc ctctacacat cattccaaga 180

aagggcaaca tttgtgtcgc atgggaatac tgcaaggcat gccaggagt atggtgatct 240

caagctggcc cagatatgtg gcacgatagc agccgatgag aagcgccacg aaacagccta 300

caccaagata gtcgagaagc tcttcgagat ggaccctgat tacacagtgc ttgcgtttgc 360

tgacatgatg aggaagaaga tcacgatgcc agcccatc 398

<210> 35658

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A7

<400> 35658

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accacggtgg gagttgggaa agggggagtg ggcgttaacg ttaaccctac caaacccggc 180

ggcgccggtg caaccgttgg cgttggcaaa ggtggcgtct gcgtcggcgt caatcccggg 240

tacggcaagc cgggtggcac cacggtgggc gttggcaagg gcgggggttg cgtccacgtg 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A8

<400> 35659

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ttaaaaccgt gatagctggg aaaggaattg catatgccag catagtgatt aacgccatgg 120

agagaagggg cattgaacct tacagtgata cacttgctgc tctctcagag ggcatagca 180  
 atagtttaca gttggatttg gctgaggagt ttttggaaag aatttcagag ataaaaccaa 240  
 agcatatagg ttcccttaaat gctttgcttt ctggatgtgc gattatgaat gaaccagaaa 300  
 gagctgtccg catactagct aaaatgaaac atgtgaacat gaagccaact ctcaggacat 360  
 atgaactttt gttttctctg tttggaaatg taaatg 396

<210> 35660  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A9

<400> 35660

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 gtgcttgcg cgcgggtggc caactccgag ggcgactccc tctgcgagct gcgcccggagc 180  
 ctgagggacc accggcgggc ttctgcagag ctgggaccac acgctcgtca acccgtgcac 240  
 ctggttccac gtcagctgcg accgcgacta ccgcgtcaac cgccctagatc ttggcaatta 300  
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<210> 35661  
 <211> 88  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B1

<400> 35661

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<210> 35662  
 <211> 437  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-001-Q1-K1-B10

<400> 35662

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taattcacct aatattccta gaccaagaac gactcgggtt aatggtcagg gatgccaaat 180  
tgtttcagta aaactaatga agctcgatg atgattatgt acctacttga gaacaaattg 240  
tctaaaacat atctgctact acacttcaat agaacaattg gtcacacaca agaagttcaa 300  
atcagaaaaat gccagcttgc ggtaactccg gtaggttctt cgatggtttc cggttaagggc 360  
tgaccatgga gaagagcaca gtgggtgtca gtgtccctgt tgttgtcatg gccgagactg 420  
ctgagaccga ctacaac 437

<210> 35663

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B11

<400> 35663

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cgtgcacgcc gaggaatcgc tgcccgttgt ggccgaaaac ggggtgacaa tggcggggaa 180  
cgacggcgac tcgcggtgt tcgtcgacct ggagcccggt ccggccatca gcaagcggca 240  
cggcggcagc gtcggcgggc accacgcggc gccgtgcgcc agggctagga ccatgtccac 300  
cagcttcaaa gagecgctt gtgtcgccga acaacctcct ctctctggcc ccgtgcagct 360  
cgcggcgtcc accggcttct cctgggccaa gaagccccgg cccgacgcca cgacggcggc 420  
ggtaactgtg ac 432

<210> 35664

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B2

<400> 35664

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agtgtagagt gtccgtaggt gtctgtctct cttggtggct ggttgcaacg gtcattggcg 120

cgtcgtctcg tcgggtgcc ttgctgctgc tgtgcctggg cgtgctggtg tcctgctcct 180

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tccttgacaa cggggcggtg ctgacgctgt cgctggaccg cagctccggc tcggggttcc 300

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<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B3

<400> 35665

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agcgacctgc tcgatcatca gtgtagagtg tcggtagggt tctgtctctc ttggtggctg 120

gttgcaacgg tcatggcgac gtcgtctcgt cgggtgccct tgetgctgct gtgcctgggc 180

gtgctggtgt cctgctcctt cgcggcgggc agcttgagc aggagctgga catcacgtgg 240

ggcgacgggc ggggcaaggc ccttgacaac gggcggtgct tgacgctgtc gctggaccgc 300

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ctgcggctgg tgccgggcaa c 381

<210> 35666

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B4

<400> 35666

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cccttcactc agtcttagtc tcttattagc tctaggctct agctagccgc gccactcctt 120

cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180  
 cgctcgtggcg gccgaggaag cgcccgtggt ggagaccccg ccgcccggcg tcgtgcccga 240  
 ggagtctgcc cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga 300  
 ggagcttccc gcggccgagc agcaggcagc cgccgaggcg gaggccggcg ctctgctgg 360  
 tgccgaggag cccgtcgcg ccgaacc 387

<210> 35667  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B5

<400> 35667

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 atgaacctga ttttccgttt cctccagagc aaatcgcgca tccagatctg gctcttcgat 180  
 cataaggacc tcttgattga gggtcgcac atccgattcg atgagtacat gaacttggtc 240  
 ctgaagatg ctgaggaaat caacgtccag aaaaacacta ggaagacact gggccggata 300  
 cttcttaaag gtgacaacat aactctgatg atgaacagtg gcaagtggaa attcttatgg 360  
 caagaacgat gtttggagct cgcggtgaat atttctg 397

<210> 35668  
 <211> 393  
 <212> DNA  
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<223> Clone ID: LIB3069-001-Q1-K1-B7

<400> 35668

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 gttagcccag agatatcaga tgtgatccat tcccagagca ataagcttgg ttcatttgct 180  
 catggattca cgtactccgg ccatccagtt gcctgtgctg tggccattga agctctgaaa 240  
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gggattaggg cgctggcaga cagtccgatt ataggggaga tacgtggcctt ggggatgatt 360  
atgggtaccg aattcacaaa caacaagtca ccg 393

<210> 35669  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B9

<400> 35669

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agtcgaagat catcctggat cgggagacgc agaggtcccg cggttcgggc ttcgtcacct 180  
tctccacgga ggacgcgatg cgcagcgcca tcgagggcat gaacggcaag gagctcgacg 240  
gccgcaacat caccgttaac gagggccagt cccgcggcgg ccgtggaagc ggccggtggcg 300  
gatacggtag cgggcgcctg gatggaggcg gctacggcgg tggcgggtgga agctacggcg 360  
gtggtcgtgg aggcta 376

<210> 35670  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C1

<400> 35670

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gggcattttt ttcccacaaa accaaaaaaa gggggaaaat aaaaaaaa aatttcaggg 240  
ggacggtttt atttcccatc cgtgatttcc acccgtcaaa aaacctgatg ggggaatgtt 300  
tttttttaaa aaccgggggg ccctccaaaa tttcaagggg gggcccttca ccgttttatt 360  
tcggataaaa aatttttt 378

<210> 35671

<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A4

<400> 35671

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gtcttcgccc tcttcgcga ctggcgcgc cggttgacc cggcccttcc ggcggcctac 180  
ttcggcaacc tcattcaggc ggtgttcacg ggcgtgccg cggggatgct cctgggcggg 240  
ccccccgagc tgtccgcggg cctgctgcag aaggccatcg acgagcacga cgccgtcgcg 300  
gtcaccagga ggctggagga gtacgaggcg gcgccaagc tgttccacta cagcgacgcc 360  
ggccccaact gcgtggcgt cggcagc 387

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<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-001-Q1-K1-C10

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ccgagcttta agctcgtgct acctgcctac ctatccgtag ggagagagag agagagggga 180  
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ggcgggcccc gaaccggcac cggcaccggc tgctgctccg gctcccgta ccgtcgcccc 360  
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ggcnggtgcg acag 434

<210> 35673  
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<212> DNA  
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<223> Clone ID: LIB3069-001-Q1-K1-A1

<400> 35673

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<210> 35674

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A10

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aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga ggtggtcacc 180

gccaccggcg agggcgagta cgagaggtag aagaaggagg agaaggagca caagcacaag 240

cagcacctcg gcgaggccgg cgccatcgcc ggccgggcct ttgcgactct acgagaagca 300

cgaagcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc 360

cgcggcggcc gtccgcgccc gcggctacgt attccacgag caccacgaga agaag 415

<210> 35675

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A11

<400> 35675

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gctgagggac ccaggagtgt tggggcgta cagataatcg gcatggaatt tagtagttta 300

taacagtgcc tgaaggagct aggtttatg aatcattctc caccaccttg aggtactcac 360

cgagaccaga atttatgaat cgttgtccac catctcgaga tatgatattg acatgaccaa 420  
atgcatttac tgtgggttct ac 442

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<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ggtagctggc ttttttattg ttgaggaccg tgtctttcga actgcagatg gacttctatc 180  
tgagagccag gttgatacta tgttggaac agccatttct aaacttactc tgatcttaga 240  
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cctttttggt gcaaccctgg agaagtatgg gtaccgatcc atgtcgctgg ctgaaatcct 360  
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cgag 424

<210> 35677  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A2

<400> 35677

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ttagctttca tctcatttag ttgaggtcc gctaatagct gcttactttt tatcttaccg 180  
tcttgttctg tttgtgagag actttgaagg ccaatttcta aggaaatcaa gagtaattta 240  
gatttaaaga tgtttacgaa gctgttacac attgaattag tatgtgatct acaaccaaac 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-057-Q1-K1-E1  
  
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 aacaaaacga gatgaaacac aggacaactt ttcatttcca gtacactatt aaaatcgggc 180  
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 cattcaagta atgcaagcca tttctgagat aaatagccat tggtttctct ccttgtctcc 300  
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<210> 35679  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-057-Q1-K1-E12  
  
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 ccagggacgc agtgcctctac cactacaaga acgcccgcag cggcttctcc gcgaagctca 240  
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<210> 35680  
 <211> 227  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-E3

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<210> 35681  
<211> 355  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 35681

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caacgttgag aacgcanaat gtctttttga gggtgatacc catctagagg catcaaagaa 180  
gaaaatcgtc tgctatatca acacatncct caatgcagnt gaaatcactt aagagaattg 240  
cggaccacca aatagagatg gaaaggtacc tcaaagcttg gttgatagaa gtttnttccc 300  
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<210> 35682  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-E5

<400> 35682

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gtaaatctca tccgtcttcc acttctcctg gagcaaagtt ttagatgggt atcggaagat 180  
aaaagttaca gcaacgcac cagggtttt gttagagagt ttagctacat aaaacgtgta 240

caattgtttg tttttaactt ctgttatttg cagtgtacac tagtaaaaga actgaactcc 300  
gatgatagtt tttttccaag ttagttgtgt cccaattggg tctgttagtg tttgatactc 360  
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<210> 35683  
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<223> unsure at all n locations  
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tggtgttggg ggcactgggtg ccaccgggtg actgggagga ttgggttcac cagaattgag 180  
tagtttgctt ggtggtcttg ctggcagtc aagaactggg tctgctgggtg gtttaggag 240  
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<212> DNA  
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aaccatggt cggtggccct cccgcccctt tggnggtctc ctctcttatt cggccggttg 180  
ggacaaagca ccacgtgttt ccaagctcta tcatgagcgt accatctgg caatctacgt 240  
gcgggtggga aggccgcgc tgttggggcc aacagccagg ccgcgcagtc catgctcaag 300  
caggactaca aggacgcctt gaccgcgag gaggccgtcg gtctcgcgt c 351

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 <211> 238  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-057-Q1-K1-F11  
  
 <400> 35685  
  
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 aaggtcaagg cctcctcctc tctctcgcca acggcagcga cagcggcagg tctggaatgt 180  
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 tgttaaagaa gcttggagga actgcaagaa agcaattgag gcattcttgc caccaaaagg 180  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 35687  
  
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 gctaataatta tcaagccaaa caaattcgga ccttttcttg aatctttggg ggctgtatac 180  
 attgctcagg tgttggaagg tcttgtttat ctgcatgaac aaggtgtcat tcatagagat 240

atcaagggcg caaatatact gactacaaa gagggccttg tcaaacttgc tgactttggg 300  
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 <211> 322  
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<223> Clone ID: LIB3069-057-Q1-K1-F8

<400> 35688

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 aagatccgga cggggagttt gagatagttc agattcttat caaggagtgc aataagattg 180  
 aaggccacgt ccagcagtgc aagcgactgg tcctgcaata cattcccctc atcctggtga 240  
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 ccataagaa gactttcagc tc 322

<210> 35689  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G12

<400> 35689

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 tgaccataaa taattt 196

<210> 35690  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-057-Q1-K1-G3

<400> 35690

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gcaggggagag cttgatagat agccacggct tgtgggcgtg cgtcgccggc ttggacgtga 180

gggcgcgctg tggcggctca gaagatagca tggcgggcgc cggctggtac tcgatgtgcg 240

ggtagaccgg ggtcggctga tcgcgcgcgc ggaggagcga gcggtcaatg aagggcatga 300

cggcgatcgg tacgccgcgg cagatgtccg cccacgagtt gatg 344

<210> 35691

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G4

<400> 35691

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ggattatgca cgctctgaat ccttaaaatt atatgcaaag gtatttaatc aaggcaattt 120

tttcatctat atttcccaac cggatgtaca ccacttgcac ggtaccaagt actatatata 180

taaaacaaaa tgttattttt tgttaagccc tcaaattatt catgcgagct cgcttataat 240

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<210> 35692

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-057-Q1-K1-G6

<400> 35692

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tcaaatacag tgtgaatata ttcanagagg aattccgggc tgtttggcgg aattatagtg 120

agctttaagg gtttcctttg tttctctcat gttcatgggt aatgaagggt tctggtgccg 180

ttgtttgtga gctgtgctag gagatctagt tgaagggtgaa acgccattgc acattacatg 240

gactacttgc tctcttggga ggtgggattc tggttgggtt gactccgaat gcgatgctat 300  
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<210> 35693  
<211> 252  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cgatataccc catttgtttc gattgaagat nccttttgac ccaggatgaa ctgggttcac 180  
ttatgctaaa gatgacttga aagaaattgg agagcaaagt gccagattgg tttggtgatg 240  
aaaccttctc gt 252

<210> 35694  
<211> 364  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ctggatgcgc gacaaagctg ccgacaacat cgccgccaat ctctactccg tcaagttcct 180  
tgatgacaag aaaagcttcg tgctgggcaa cgacggcgtg ttgcttcggt atcttggtcg 240  
acattctatg tatatgtgtg tacagcgaac ggcatgtgct gctgctacta ctactgtaaa 300  
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gtgc 364

<210> 35695

<211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-057-Q1-K1-H2  
  
 <400> 35695  
  
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 tgggagcctc ggaggaggga gagggcgaaa agtaagggga accaaatctt gaagggtaaa 120  
 cggagagttc tttcgtggaa gaagaagggg gggacagcaa gaggagggta gaagtagctc 180  
 aatagatcta ctgctgtcgg gggagttaat gcaaagctga gttgctgcac gttggctttc 240  
 ttcagagatg gcttcagctg gtgtagcccc atctgggtac aaaaacagca gc 292

<210> 35696  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-057-Q1-K1-H4  
  
 <400> 35696  
  
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 ttacaacatg cagttcaagg accagatcgg gagctactac tacttccctt cccttctgtt 180  
 tcacaaggca gctggcggtt acggtgccat cagggttctc agccggccga ggatccctgt 240  
 cccgtttgac ccgcctgccg gggatttcac catattggcg ggtgactggg tcaagctcaa 300  
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<210> 35697  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 35697  
  
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ggagcgacac ttggggagaaa tgaacaggca actcaaacac aagcttgaag ctgaagggtt 240  
tagcaactac agaaccctgc agcatgcagc ctgtccagct cccggcacca ccatgggtgga 300  
gcatgacggc gccacctatc atgtgcatcc aactgctcaa tcggttgcaa t 351

<210> 35698  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H8

<400> 35698

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gtgatgctga aacagcaatt ggaacagtat gagagtcaat ggtcagaata tgaggccaaa 180  
atgaaatcta tggaagaggc atggaagaga cagctctctt cactgcagct gaggccttgtt 240  
gctgctaaga agagcctagc tgctgccgat gtggctacta gaactgctca gactgattgt 300  
actccaacac atgcccagta cgactctgaa gacacgttgt cactggggac ccatacacc 360  
gaagtgcag aatcgaggca ccgtaaccac aaccacaacc ctgaaactaa aagttaaaca 420  
tgaaactcgg ataggcgag 439

<210> 35699  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H9

<400> 35699

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tatccaccgc gtcacgccag tgctctgagc ctactagtgc gctctggcag gaccagctgt 180  
cggcatctaa acttacagcc ttctctcgca cagcaactcc gaagatgttc ctaccaaate 240



agatctgggtt tactgcacag cagcatcaga cgccccacccc ata 283

<210> 35700  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A12

<400> 35700

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tgaagggtga ctatcacagg tatcttgccg aatttaagac tgggtgctgag aggaaggaat 180  
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cacctaccca tccgataagg ctgggacttg ctcttaattt ttcagtgttc tattatgaga 300  
ttctgaactc cccagacaaa gcttgcaacc tggcaaagca ggcgtttgat gaagctatct 360  
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<210> 35701  
<211> 406  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-A4

<400> 35701

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gcaaaccatc ctccatcaga tttctctatc ctctttctt tataactaca atctctctgt 180  
ttgaatgtga aacatagtgg tagagtagct aaactattta tgacctgaga ctgacgtgtt 240  
catgttgta gggagaagaa agatcnccat ggccactgac tcgggtgcat ggngccttga 300  
ccaggatgct taagctcgtc ttggcattag ttgaaggtaa cctcgtgtgt taacaaaaag 360  
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<210> 35702

<211> 319  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-A5

<400> 35702

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gccgtgatcg tgcgcgtttt cgaggagggc acccgtgatc gtccctacgg gcactgcctc 180  
gtcgcggggcc tcgccaagta cccaagaag gtgatccgca aggactccgc caagaagacg 240  
gccaagaagt cccgcgtcaa gtgcttcac aagctcgtca acttcacgca cctcatgccc 300  
acccgctaca ccctcgacg 319

<210> 35703  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A6

<400> 35703

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gtcttggtt gcttttgctg ccagaagggt tgttgagggt gatgctcttg ctaaagcatt 180  
ggctgggtcaa aaggatgagg cttacttcgc agcaaatgct gctgctcagg cctcgaggaa 240  
atcctcacc cgtgtgacca atgaaaaagt ccagaaggct gctgctgctc tcaagggtc 300  
tgaccaccgc cgtgggacca acgttagtgc tagattggat g 341

<210> 35704  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B11

<400> 35704

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cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg ggcagcagca 240  
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300  
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acagacggac ccaccctact atggacg 387

<210> 35705  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B12

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ggaacgccgt catattcggg ccgatgaca cgccgtggga tggaggcacg ttcaagctga 180  
ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt gtttcgagga 240  
tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggaca 285

<210> 35706  
<211> 261  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gctaattgat tggctgctca aaaagatcaa gcttacttca caccaaatgc ttctgctcat 180  
gcctcgagca aatcttcacc ccgtgtgacc aatgtaaaaa tccataacgc tactgatcct 240  
atcaaagacc tctaccacct c 261

<210> 35707  
<211> 270  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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atcgatcccg taggccaggg ggaccgggga 270

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<211> 286  
<212> DNA  
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<223> unsure at all n locations  
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atcattttgt aatggtagt gccaatggaa ttggagagtg ggttaagttt tcacatatga 180  
tactatatat aaggcatcat atggagttaa gaggtgcagc agtgtttggt gtttacacat 240  
gccttcaa at gttagactat ataagatttt accctgtacg taacct 286

<210> 35709  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C12

<400> 35709

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gatttattca tggactgata ctctccattc gaaaggtcac agacaagcct attctgatat 180  
atcccaacag tggtgaaaga tatgatggtg aaaaaaagga gtgggtggaa tccactggtg 240  
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<210> 35710  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C6

<400> 35710

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gcagttgtgt ttattgttga cacaagtgga agcatgcaag gaaagcctct tgagaatgtc 180  
aagcatgcag tttctactgc tctttcagag cttgtgcaag gggattatth caacattata 240  
acatttaatg atgagcttca ctcatctctt tcctgtttag agcaagtaaa tgacaaagca 300  
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<210> 35711  
<211> 331  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-D11

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tcaaaggatc aagagcgcgc ctatthttgat tctgcagact gggtccttgg caagcaagct 240  
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<210> 35712  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 35712

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<210> 35713  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-057-Q1-K1-D4

<400> 35713

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tctaagtgtt gcttcatttt gtcattctca aggtgttggt caccgggatc tgaaaccaga 180
gaattttctt ttcattgtcaa aggatgagaa ttctgccttg aaagtcattg actttggttt 240
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tgctcctgaa gttctccatc gatcttatgg cacataggct gatatgtgga gcattggagt 360
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cacaagaagg acgaggagca tgccgcggcc ggcgggtacg gcgagtcgcg cgagtacacg 180  
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240  
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgcggcg 300  
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actgaccgca tcggcaggtt ccgctgtcac ctcgcgacag ggccaagcag cggcggcatc 180  
agcagccacc agctccggtc cgtcacgtcc tgctcgggtg cgggtgcacct cccgcaggcg 240  
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aacaagca 308

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cgcgaagcgc caccggaagg tgctccgcga caacatccag ggcatcacca agccggctat 180  
 ccggaagctg gctaggaagg gtggcgtgaa gcgcatctcg gggctcatct acgaggagac 240  
 ccgctgctg ctcaagatct ttctcgagaa cgtcatccgc gacgccgtca cctacaccga 300  
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<223> Clone ID: LIB3069-056-Q1-K1-G3

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 tgttgtcctg agcatggctc cttgttttga aacatacaaaa gcaat 165

<210> 35718  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G4

<400> 35718

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 gctcatgggt ggagctaata acggtaggat atgggcatct ctaacttccg tgtcacttgg 180  
 tggacagact ttcaggcgag ttgctgttgg actgattagc tcgaccatct agcagcatca 240  
 agagaacgtg ctgattcatt gaatcgctcc tgttactgct gtaactcaca ttgctcatgt 300  
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 <212> DNA  
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<223> Clone ID: LIB3069-056-Q1-K1-G5



<400> 35719

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g c a g g a c a a c t c c a a a c a c t a t c a g g g c c a t a c a c a g a a c t e t t a a c c a a g g c t g c c a c a 120

a g c a t c a g t t a c c t g t a g g c t g t a g c a t a g a t c t g t g c t c c a c t c e t g a t g c t c t c e t c c 180

c a g c a g t a c c t t g a g c t g t a t c c c c g a g a t t c c t t a a c c a g c g c a a c c a a t a t a c t g t t 240

g c g t g t t c t c t g c a a a t g a g a t g t t c t g c a c t a t g t t t g t a a t g t t g t a t t t c t g g g t 300

t t t t a a g c t a t c c a a c t t g g a g a t a c a c c g g t g a a g a a g c a g c a a c a a t a g g t a g t t c t 360

a c t t c t g a g t g a a g a a a a c a a c t t g c 387

<210> 35720

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G6

<400> 35720

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g g g c c g c t g c g c c a g g g c c g c g t c c t c c t c g c c t c c c t c c g c g g g c c a c g c g c c g a c 120

g c c g a c a c a g g a t c g c c g c c g g a c c t c c t a c t c c c t c c t c g g c c g c c g c a g c g g a g c t 180

c g c g c g g c t c c g g t c c g a g g g g t c c t c c t c c g c a g c g c c a g a t c g c a g c g g c g c g g c g c g a 240

g g c c g c t g c c c a c g c g c g g g t c g c c g g t c c g a g c t g c t c t c g t a c t t g c c g t g g c g c c 300

c g c c g t a c t a c t g t c c t c c t g t c g g g c t t c t c t a a g c c a g c g g c g g c g t g t g t a g c g c 360

g g t g g c t g g a g t c t 374

<210> 35721

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G9

<400> 35721

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g c g g a g g c t t c g c t t c g g c t c c g c t c g g c t c g a g c a g a a a a a t g c a a c g g g c a g t g c a 120

agccgtcagg tcacacggca atgttcttaa atatgctggt ctacaacaca tcagcgctcc 180  
caagccagca atgcttcctg ctgccttttc tcgtttcatg tcagtttcat ctgctcgcct 240  
agaggatcgt ggatttgaaa ctgccactgt agcagatgtc ttgaagtcta aagggaagag 300  
tgctgatgga tcttggtctt ggtgcaccac agaggatagc gtctatgacg ctgtcaaadc 360  
tatgactcag cacaacgtgg gagctttggt ggttggtcaa cctggacaga ataaatcaat 420  
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<210> 35722  
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<212> DNA  
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<223> Clone ID: LIB3069-056-Q1-K1-H1

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catacctaa 129

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H10

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cggggcttgg tggtcgaggg agacggtggc cgtcgtgacc ggcgcgaacc gcggcatcgg 180  
ccacgcgctc gccgcgcgcc tggccgagca cggcctcacc gtggtgctca ccgcgcggga 240  
cggcgagcgc ggggaggccg ccgcggcccc gctcctggcg cgcgggctcg ccgtcgtctt 300  
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<211> 463

<212> DNA  
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gctgggcgtg ttgttccacg gcgcgcagct agcgcctggat ctggcggtgg ccgggatgtc  180
gctggcggtg gcgcctcgggt tcttcgcctt catcactacc ttgctctgct ccgcggcgctt  240
cctccaccac tccaagcccg ccgcgtagtc atagcctnca cagcgaccaa cgcgtctcaa  300
tctctgggga tcgtaatact ggtgctggta taattcctcc acatcaattg cagaggaggt  360
gctttaatca actgctttat agcacttaca gatgcaaaga gtagtcgatt gcacacatca  420
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 <213> Zea mays  
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attactctcc acctattttc actcttcgcg caggtagctc tctatctttc ccagccaaa  180
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<210> 35726  
 <211> 431  
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 <213> Zea mays  
 <223> unsure at all n locations  
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gcaggccagc aggacgaaga agaagccggc cggaagacc caggcctgac cgctgagct 120  
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 gcccggcgac cacatctaca cctggcgcg cggctacacc tactcccacc acgggattta 240  
 cgtcggcgcc agcaaggtgg tgcacttcac gcggaagagg gaggcgggcg gcgcgggtct 300  
 ggactcgccc atcgccgtgt ccagcctnct nctctcgcg ggctcggacg agtgccccag 360  
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 <212> DNA  
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<223> Clone ID: LIB3069-056-Q1-K1-H3

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 gctgagcagg ccgaaaggta tgaagagatg gttgagtata tggagaagggt ggctaatact 180  
 gtagatgtgg aagagctcac tgttgaggag cgtaacctct tgtcggtcgc atacaagaat 240  
 gtgattgggg ctcgccgtgc ttcattggcg attgtctctt ctattgaaca gaacgaagag 300  
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<210> 35728  
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<223> Clone ID: LIB3069-056-Q1-K1-H4

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 tacaatatta tatactttta cagttaaccg tgtaatttct tggaaattat caaattcaat 180

acttgtataa aggcctctaag ataaagcaag ttcttctagt gatggattct atgagtcctat 240  
 ataagaatgg cccgccagaa tacactttct gctagctttc taatgttcaa ctgaaagatt 300  
 gtacatagt 309

<210> 35729  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-056-Q1-K1-H5  
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 ggtggttgtg ctctagctgc tgtcacagag ctgaacttta atatggttgg atttatgggt 180  
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 gggaaagccg tcagtggcat gaattactac gcttgctgt caattatgtc cctggtcata 300  
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 <211> 456  
 <212> DNA  
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 <223> Clone ID: LIB3069-056-Q1-K1-G11  
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caccggagca tccggcgagg acctgcacgc ttgaaaccga cgactaggcc atatgctggg 420  
gaattgcata ttgtgtcaag ggtgggtccag aaaaag 456

<210> 35731  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gcgagagggc ttgatctccc gttgttgcg tccacgttgt tgggccttcc ctctgtgtct 300  
ctgctttag aatccttget tctgttcggt tccttctggt cgcctgatgg tgttcgtagt 360  
gttaggagtt gcattttcta atctgcttgt tcttgaccg gtgcctctga agtggccggt 420  
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<210> 35732  
<211> 279  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E4

<400> 35732

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ccgcgcttgc cggagctcct gccccggcc ctgcccgcg tgcccatata acctgcaaaa 180  
accgagcgaa ccacatcctg tcaacgttgg tggcaggcga tccaaggaaa gcgatgacgg 240  
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<210> 35733

<211> 274  
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 <213> Zea mays  
  
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 caacctcaac aggcttgtgt cccaggtcat ctcatccctt actgccttcc tgagggttca 180  
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<210> 35734  
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 <213> Zea mays  
  
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 gcagatgcgc cgcgccgccg agcgcgcgc caagtggcgt gcgctggggc acggggagta 240  
 caccgaggtc cccgagaagg agttcttctc catcgccaaa gccagcgagc ggctcgtctg 300  
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 <212> DNA  
 <213> Zea mays  
  
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tgacttattt tactatccaa agtatgctct gcgcctatgt cttcaataga agagaatgcc 180  
tgcttgtgtt cgtatttata gcatgatgtc catgcatgcg gaagctgtgg cacttgcttt 240  
gaaggtggat ttggaacttg caaaagccta agcttgcaaa gtaaaatact atgaac 296

<210> 35736  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E8

<400> 35736

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ttcactcaat tcaactacca ccatcttaca tcttcctaac tcttcaaacc ctgacaatac 180  
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<210> 35737  
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<212> DNA  
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<223> unsure at all n locations  
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acataccttg tactcacatc atactcaaac tcacgcacat tgcgcatata ttatataaca 180  
agttaccgct ggttatggac accgatccac agacacatgg tgtcatggcg gaaccacgg 240  
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<210> 35738  
<211> 372  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3069-056-Q1-K1-F1

<400> 35738

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tactggaccg caccgacgtt cgacggacgg cccagtgagg gctgctgggc tcttggcctt 180  
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gcagctgcct cctcgactgc ggtccaccaa attagttcag tttgatcttc tagctagtaa 300  
ccggaactag aactagctta gttttacaga aactataaat tcacaccatg aaccctctga 360  
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<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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catgggatgg aagggccgag ctgcagtggg tgaaggaatc ctctactctt acgattacct 240  
gngacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttgga 300  
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<210> 35740

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F11

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<210> 35741  
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 <212> DNA  
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<223> Clone ID: LIB3069-056-Q1-K1-F4

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 aactacgaag ctatcagcaa gaacggatca actggcttgc attcctacgt cgggtctaagt 180  
 tacatggaat tccatgcgac gacatcgtgc tcgctaagac gctccaagca tatactatcg 240  
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 <211> 391  
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<223> Clone ID: LIB3069-056-Q1-K1-F6

<400> 35742

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 gctcagttgg aaacaacaac atatgtaaaa cagcttatag aggttcatgg agcctgggtg 180  
 ccaccatggt tagcgacaca tgcagcccg c tctatggagg tgatgtcaaa tcaactggaat 240  
 gaacatggga aacctgcctt tgacagcttc ttgcagaagg catctgaaaa aacagtgcag 300  
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391

<210> 35743

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gttcgattaa ggcgccgtgg tggagacccc gtcttcggcc gtcgtgcccg aggagtctgc 120

ccccgccgag gccgatgccg atgccgaggc tgctgtcctt gctgatcccg aggagcttcc 180

cgcgcccgat cagcatgcag ccgccgaggc ggaagccgcg gtccttgctg gtgccgaaga 240

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gactcctgcg gtctagcaag atgcag 326

<210> 35744

<211> 446

<212> DNA

<213> Zea mays

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<400> 35744

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gaccaccaga gataggcgct ttgttgccgt ggctcatact cgctcgacga cggcggcagt 180

gtggatctcg gtcggggagt acgcgcggag gcgctctgct gcagtgctgc agattcgctc 240

gtcggctgcg gcggcgggtga tgtggatctc ggccggtgag tacgcgcgga agttctctgc 300

tgcagattcg ctgctcagcc gcgacgtgga gaaggctgac ggcagggctt tgaatcctct 360

gtggtgcgaa atcgtcggc gggacagagt cgctgttcca actagctgga cgagagctgt 420

acgaacaagg aaaatcccat tttctc 446

<210> 35745

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F9

<400> 35745

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aagccaaaat gagaaccccg gtccgcacgt agcccatggg aatggctttc ctccccctat 120
tgctctccgc cctcatcgtc tcctgcgaca cgcaatcgcc ggactaatcg ccgtcgcgct 180
ggaatgctcc tccggtcacc ggctcagatc cgaggagctc tgtcgcgcca ccgacaactg 240
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<210> 35746

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G1

<400> 35746

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ggatattctcg aatgccatag cccatagtca gccatggctt ggaataacgt agtggctgac 180
cgatatgcca gtaggcacct tatctagtac ttacagaact acaaaaagtt tgtactatac 240
atatatggac aaccttataa gtggctatgt gtgtacctat cctaacgctt atcccagatg 300
gtgtatcagc gtttttctgt g 321

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<210> 35747

<211> 235

<212> DNA

<213> Zea mays

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<400> 35747

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ttcttgctgc catagtcgcc tccatcggca atctattgca aggggtgggac aatgccacca 180

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tcgcagctgc tgttctgtat attaaagaag aatttcaatt ggcaaagtgag cccac 235

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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 35748

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aggggccgaa ggtgaatgca gggggaaagc tggttgggtc ccctacgact acatcgagaa 120  
acgggagcgt gtgcttgcaa gttaaagtcgc ccaagttttc taagtcttcc gcggagccat 180  
gtagtatatc cccgggggtg tacaatgtgt gttgggttatg cttgtcatct tcagagaatc 240  
agaggagatc tgtaattttg ctgaaagct 269

<210> 35749  
<211> 441  
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<213> Zea mays  
  
<223> Clone ID: LIB3069-056-Q1-K1-C5  
  
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ggaactctca aatgcagaga tgtttgggct gtggtggatg gggagttggt cttgtccaac 180  
cttggggata ctgcaatcac tgtacacagg gttcaaaaatc gcccttttaa cagtacctat 240  
tttacacata taatacgatg cagccagtg gtaacaatgc tcccaaaaact cagggaatg 300  
tttcagctaa gaacagatca agctcaaagc cacctttagg gaaaccaaac agaataagacc 360  
accgcaaaag aaatcgcccc gaggatgatg aacttgaccc aatggacccg agttcttact 420  
caaatgctcc acgcggtggc t 441

<210> 35750  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C6

<400> 35750

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cataaagcag cagccccact ttcgcggcgg cggcgcactc acggtccttc gtcacacgga 180  
agtcctaaag gagagagcca ggattcgccc atgctcgggtg gccgtgatcc tctggccccg 240  
ttcctcgctg cttacttgaa gcgtgcggcg cgcctacgct gcggcgagca gctgcacgcg 300  
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<210> 35751

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C7

<400> 35751

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tcccaactcc tccatcgcca ctactactac tccgcattcc ttcagaccca tctgaaactg 180  
gccatcctat acacagagcc agcatcgggc atcctctgtc gctcctcatg aagctcaacc 240  
cactgatcta ctctctctca ctctactata tcgcttgcaac cccaggagtc gctgccgacg 300  
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<210> 35752

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tcaagtggag aaagcaaagg aagacatgct taaccagcta tacagctcga taagcgggca 180  
aagcaatgct aagattgaag agctgcttca agaggaccat aatgctaagc gcagaaggga 240  
gaagtaccaa aaacaatcat ctctcctgtc aaaacttact cgtcaactca gtatccatga 300  
taacagggca tctgtttcct cttattctaa tgacaccact gaagccgaga gccctcgaac 360  
accaaccgc tcaggtgagg actggaggtc agcttttgat tccgcttcaa atggtccttg 420  
tgctggaagc acaaacagtc aatc 444

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<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D11

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tagtcaacac ggtggtcgaa gtaaagtcga catgagaccg aggattttct taaatcccg 180  
cttgttcgtc gcggctttta tccggccgtg gcttctacag tattttgtct ctctatagat 240  
tgcaactgcg gctgccagcc agctgatgaa ttcctcagtt agggctacct cccaataccc 300  
acataaattc ctcahtagaa gtttctggga catcatattg taaagttcat gtctatcggt 360  
aatctgaaat aatatgaaga atagtataga tgtgatgaat ccaaaaaaat cttaactccc 420  
ctggcacccc c 431

<210> 35754  
<211> 66  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D12

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gggaag 66

<210> 35755

<211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-056-Q1-K1-D2  
  
 <400> 35755

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ctaaggtatt ggggttttta cctgggggttg atcttgcaaa ggttgagtgc acatgcaagg  180
aaatgatgaa tcttgcatca gatgatagta tctggaagaa gcttgtatcc aagtttgaag  240
attatggcga gggctctagg ctggcaggca agaatgcaaa ggccatattt gtagaagctt  300
ggcaggccaa taagagacgg cagaagaggc ccaatccaac cttttggaac tatggctggg  360
gaaacagtcc ttatagccgt ccacttaggc tgccattgat tgggtggggac tcggacagac  420
ttncttttat tgggaatcat ggttctgttg ggc                                     453
  
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<210> 35756  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-056-Q1-K1-D3  
  
 <400> 35756

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gatgtgcttg aggggtccga gccgatggaa gaatttgcat ctgctgttga gaaccaaatt  120
ataccagata cctccacatc tagatttaca tggatatattg aaaatttctc caaacgaaat  180
gttagaaagc actactctga caattttact gttggggggg ccaaatggca agtgctcgtc  240
ttccccagag gaattaacgt ggactacctt tcaatgtacc tggatgttgc tgattcgaac  300
ttgatgcctc ccggttgaag taggaatg                                     328
  
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 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-056-Q1-K1-D4



<400> 35757

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tcctttgttc tcatgaaggt gcttcaggtt gccacttaca tactgtggaa gaatgtaccc 180  
catggagctg cgactacttg ctacgtagga ctgagccctc aactcaaggg agtgacagga 240  
aagtactttg ctgactgcaa cgtggagaag acgagcaaac tggcgaagag cgaggagttg 300  
gcgaagcagc tctgtgactt cagcgaggag ctgatcaagt ctgcgaagtg agagccgaaa 360  
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<210> 35758

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D5

<400> 35758

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agattcggca acatcttcta acgcttgtgg atgctgttga agatattatc attcgagagc 180  
tgcggtctcg ttaggaccac gctgtcgaca ggaatagctt tgggggataa tagacagcct 240  
ctactggctc gtggatcaat gtttcacttt cacatcttgt acagaagcga ctctatcacc 300  
gttacgcac taccgctgat ttttttagtg tctggcgctg tgccagaaaa gagaatcttg 360  
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<210> 35759

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D6

<400> 35759

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 gatcaattcg gcaactgtttg gataagagtc cttccagaat ttcattgggac tactgggttca 180  
 agagagtatt gtactaccaa gttgctctag tctatactct gactagattg gtgaccaatg 240  
 ttccacaggc atttcttgct ttctatgtaa taaatgattt agaaatgaat caatcctcca 300  
 aagcattggg acctgctatt atctacatct gcagcttgat agtatctgta atattacaag 360  
 agactagatg gtcaagttgg cgtcttaagc ttacttttcc agatggagca atgcttttga 420  
 ta 422

<210> 35760  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D7

<400> 35760

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 gtttgcggtgt tctgcatcag cttgcggtcta gtacaacttg tgcagaagct atggcagcaa 180  
 caagtgcagg aactcctcag gttgtaccac tgcttatgaa agcaattgga tggcaagggtg 240  
 gaagtatact ggcattttgag acattaaagc gtgtagttgg tgctggtaat cgggctcgtg 300  
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<210> 35761  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D9

<400> 35761

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 cgtggatgtc accgtatcgt cctctgtgga catctacgtg cctgggtgcc caccaactgg 180  
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ccttcactgg tggaccaagt gaagcatgct tctgctgttg ctagcttgct acgtttatatt 300  
gcaactctacc tacctgtctt atatgaaata aagacagact gtgctcggat tcacaaatgt 360  
gctgtccctg gaaggatgca tgcccacgtt gccacgaaca tataacttgt gtacttggag 420  
tcag 424

<210> 35762  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E1

<400> 35762

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cggcactgga gtgacggtgc aagccgtcga tgcttagaat cgtgggttag atgagctgtt 180  
gcgaagattg attaaaccaa ccgtagattt gtcaagggt 219

<210> 35763  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E11

<400> 35763

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tatcactttc caaatTTTga tgacatcaat attagcatgg taggaaaaaa tatatgcagg 180  
cacgatgtat aacaaagccc gtgcagcacc aactagatgt cgtacaatca tgttgatgct 240  
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tttcgcg 307

<210> 35764  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C4

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gaacagatcg acgaggacat ttatggacta cgattcagtt aaccacgcgc tggatggaat 240  
atgtgggtcta tacgaaagga aaatcaggaa cataaaccca atggtcagga acttgactca 300  
tgatatcggt gacctgtaca acttcatcga tggcctgacc gacataagtg cactgacgta 360  
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<210> 35765

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E12

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ggtgatttcc cctgtataaa tacaggggaag gcaaagcgcc caacatattt tccaatcgag 180  
ctatgctcgc ttgttccgct tcaaagatac accaaagctt tgtctacgct acaaagggtca 240  
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ctgcaacgca gtaactacga ttctgacccc atgttgaggg catgtggtgt ttcagttgct 360  
ccaaaattta ccaaagtgtg aggaaggatc cttcaagccc caaagctgaa agccggcaat 420  
ggatgatgata tcttttcacg aaatgga 447

<210> 35766

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A9

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gtcaccgtgt ttcttagcgg tggcgagagg tacatgagct ccgatctctt cgcggatgca 300  
agggaggagt gcgtcgccat gaccttctga tcttctggac gctctgtgcg gatctgcagc 360  
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<210> 35767

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B1

<400> 35767

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tgcatggtac agatccatat cggggctata gccctttgca agcatgacga tgcattgtctc 180  
ccccttgacg aacatacaac accagggccc tgctgctaac caaaaccaac gcctgatgcc 240  
tgattcatcg atggattacc ctggaaatgg cgtccacaag gatgtacagc tcctgaacaa 300  
gttctgaatt catgtccctg atatgcatga cctagttaac ggcattgtca gtctccacgt 360  
aatgggcatg ttcggttccc cgggaatggt cgatctggaa tgaatcctgg ccggagttct 420  
tcactaatta tataagcttt gatcagttgg aa 452

<210> 35768

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B10

<400> 35768

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gttcgttact acgccaggat ggaagaccat ggctgtatgc tgctgagagc agtccatttg 180  
aatccccga tgttattttc cttgagctgc atgcttctgc aatgctctgc ctaccttctg 240  
gagaatgtct gttaccagat gcaacatcat gcacagcttt gacaagtgca ctatattcaa 300  
ctgtcagtga agatgatgtg ctgcat 326

<210> 35769  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B11

<400> 35769

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agaacatgaa cggcaaggag ctcgacggcc gtaacatcac cgtaaccag gccagtccc 180  
gtggcggttg cggcggcgcc ggtggctacg gggcgctcg cggcggcgcc ggctatgggtg 240  
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gtggcgcgcc ctac 314

<210> 35770  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B12

<400> 35770

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gaggtgctct tccagccatc catgatcggg atggaagctc caggaatcca cgagacgacc 180  
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ctcagcggtg gatccaccat gttcccaggc atcgctgacc gcatgagcaa ggagatcacc 300  
gcgctcgcgc caagcagcat gaagatcaag gtcgtcgtc cgccggagag gaagtacagt 360  
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450

<210> 35771

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<212> DNA

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<400> 35771

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tgcacgtac agatccatct cggggctata gccctttgca agcacgacga tgcataattc 180

ccccttgacg aacatactac accagggccc tgctactaac caacaccaac gcctgatgac 240

tgattcattc atgtattccc ctggctatga cgccacatg gatgtacagt ccctggacaa 300

gttctgaatt tacgtccatg atattcatga cctacttaac gtcattgtca ctctcacgta 360

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<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B3

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aggactgtat acagtactgt ctgtcctgtg gccatctctg agaatgtcta gggcccagtg 180

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gaacatgatc tagaaaaagc t 261

<210> 35773

<211> 456

<212> DNA

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<223> Clone ID: LIB3069-056-Q1-K1-B4

<400> 35773

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accagctcta tcacctcaac ctggactgga gcatacatgc ttcgggtcaa gcagtacttc 180  
gcagaggctg tagaggagca gaaagatgtc atgaaacggc acggcgacaa gattgatcat 240  
gacatcctcg cggagatgga cgtcctctac cgggtgcatca aggaagccct acgtctacac 300  
ccgtcgctaa tcatgttgct tcgtcaatca cacagcgact tcaccgtgac aacaaaggaa 360  
agcaaagtgt atgacatccc caagggccac atcgtcgga catcaccatn cttcgncaac 420  
aggctgtccc acatctacaa gaaccctgac tcatat 456

<210> 35774

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B5

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gtagatgctg cacctgctag ccttcgcgct ggagccgccc tccatccact tcgatgccag 180  
acgcggtgcg gagttccacc aggagtacat ggagagcgtg acccgcgcg cactcacgg 240  
cggcgcgga ctggtcgttg ggttcgccgt cacgccggg ttccggcttg ggaacggagc 300  
catcgtgcg ccccggttct acctggtacc gcgtggtggc cgaccgttac agaccatgc 360  
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<210> 35775

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B8

<400> 35775



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 tgctgagacg tttccctatt gaatctaagg ggcggcaaaa gaagctgtat gaagttggga 300  
 ccgtgacagc aatttgtgtt acctgctttc tgataagatg tgttgtggtc acgctatctg 360  
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<210> 35776

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B9

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 acgaggagga gtacgaggac gaggaggagg tgcaggccga tgacatgtga ggggagggct 180  
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 ctttctgtgt gttgccatct ttctactgct agcgtaccca cctctgtggc ccattccgtc 300  
 gcttgtgacg tatgtatttt tcttgtgcta tggaaccttg cttttggtac ggtactatcc 360  
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<210> 35777

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C1

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 cacggcccct gaacagactg atgctttgat cgattctggt tgccatcatg acccttctga 180

gctcctggcg aatattgagt cacacatatt aaaagcgaaa gaagagtctc ttagtcggaa 240  
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 aaaatataac caggacccaa agaggtacag tgctggaaag ggtgctcata taaaccttaa 360  
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<210> 35778  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C10

<400> 35778

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 gaattgataa gccttggtg gtagatgaga tccatcttcg aagatttgat ggcattgttg 180  
 aacatgaggg ggctcatagg tgtgtttttg ctagtatcac tgtgaaagca ccggttcgag 240  
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<210> 35779  
 <211> 313  
 <212> DNA  
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<223> unsure at all n locations  
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 tggcttcgac agagatggcg gagactacaa ttctggtggg cgtggtggtg gatgcggtgg 180  
 cagaggagga tacaatcaaa gtggtggtag tgaccgtggt tatgatgacc accgtggtgg 240  
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 <223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-056-Q1-K1-C2  
  
 <400> 35781  
  
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 atctttatta cagcacacta aaagcattaa tattactagg ttgatgccct tgctatcaat 180  
 atagctgtcg attgatctgt tacatTTTTt aaaatatttc ctattattct ctgattTTTT 240  
 atgattTTTT gaacaatttt gtctcatgaa gcgtTTTTtag ccccttggat gccaaacatt 300  
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 <213> Zea mays  
  
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ccccgtgccc gctcgcgcac gcgcaccccg tggacctgcg ctggctgctc tcggtcgccc 180  
tcggcggaact cttcgcgctg atgctgggtgc ttctggccac ctccccgtcg ttccgggtcg 240  
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<210> 35783

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C3

<400> 35783

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tgaacctgaa acaaattatt gacctgaaa cactggctga cctctgtatt caagcagggc 180  
aggcaataac tttccgtcgg ctgttggttg aagccgtcgg agcagtcctt gaagagaaag 240  
tgcccttgat atattctctg ctcaaaagat tagccttgca gttgccagac gaggtacctg 300  
ataaaaatga gataattaga ttgagaaagg ttgcgagcag tgttggtgtt ggcgacaaac 360  
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<210> 35784

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-H12

<400> 35784

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cattcttggg cactctgaaa ggagagctct gctgggagaa tcaaatgagt ttgttgagga 180  
caaggttgct tttgctctgt ctcagggact aaaggtcatt gcatgtgttg gtgagaccct 240  
tgaggagagg gaggtggtt caaccatgga tgttggtgct gcacaaacaa aagcaattgc 300  
tgagaagatc aaggactgga gcaacgttgt tcttgcttat gaaccagtct gggctattgg 360  
aactggcaaa gtcgccaccc cagc 384

<210> 35785  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-055-Q1-K1-H3

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 catacctaata gaggatcatc aaagaaggct agctgatgag ttgagaacaa aggtcgcaga 180  
 tgaatttatc aagaggcggg cagagactga atggtttggt gagggggact tcgacacgta 240  
 cgtatctcag attaggaagc cacaagtctg gggaggcgag ccagagctgt tgatggcttc 300  
 acatgttctt cagatgccaa tcaccgtcta catgcatgat aaagccgctg gtggtctaata 360  
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 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-055-Q1-K1-H4

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 aggtcaagga agcccatacc taatgaggat catcaaagaa ggctagctga cgagttgaga 180  
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 ctgttgatgg cttcacatgt tcttcagatg ccaatcaccg tctacatgca tgataaagcc 360  
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<210> 35787  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H5

<400> 35787

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tgccggcagcg gatgcaacgg ctgcggtatg taccctgacg tggagaccgc cgccaccagc   180
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tgctcctgct gcagctgcaa ctgagccggc ccggctcggc gatggcgcac gagagtcgag   360
aggacgacga cgaggaggcg tataataaat ataatagcgg cgtccagtaa ataagatcct   420
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<210> 35788  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H6

<400> 35788

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<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H7

<400> 35789

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gatcgtgcc ctcaaggaga ggaaggggtc gagctcggtg gccatcagca agtacgtcga 360  
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<210> 35790

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H8

<400> 35790

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ggtagcggtc tgcgagagtt gatgattcta ccttgacata tcgaacccaa tttgtaaata 240  
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<210> 35791

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H9

<400> 35791

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<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tcagatgaga aaagtgagat gcacgaactg tcaatggtag cactgtccgg ttgcatttgg 180  
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<210> 35793

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-A11

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tccacctaag tcttcaaaaa ttgaacaag gccatattat cagataaaaag cagatgtagc 180